

MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	C	C	C	C	Confirm sump is full.
LO Replenishing Tk Level	3/8	3/8	1/4 +	3/8	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	3/4	3/4	3/4	3/4	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	T	T	T	T	Keep level at dipstick top notch.
Coolant Level	11.0	9.5	10.5	8.5	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-hter Power/Elements	1/0	1/0	1/0	1/0	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	1/2			Log LO level, carefully blowdown receiver
Engine Room Bilge	D	D			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	7.0	7.7	7.6	7.1	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R	R	R	R	In Remote
Lube Oil Level	8.7	7.3	8.4	7.4	Log level 7.0 - 9.0 cm normal
Coalescer Filter	C	C	C	C	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	C	C	C	C	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	D	D			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	C	C	C	C	Check for FO, LO, or coolant leaks
Coolant Level	C	C	C	C	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	C	C	C	C	Check Pump & NFV for leaks
ME Parker Pre-Filters	C	C	C	C	Drain Water, Log Amount, Reset Red Needle
NFV Sludge Tank	Stbd	C	Port	C	Check drain, Log discharge amount
Fuel Tank Sounding	DB3 2'7" ; 5'0"		DB4 2'6" ; 4'11"		Before & after fueling
Compartment Decks: 1,2,3,4,5,6	C	C	C	C	C C Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.2	8.7			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	C	C			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:	C	C			Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1 C	FW2 C	CW1 C	CW2 C	Check pumps
Deluge, Sprinkler, HVAC Pumps	C	Del C	Spr C	HVAC C	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 10.3	Temp 35	Aft 9.0	Temp 35°C	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7.2	Temp 33			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine	-	-	-	-	Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's	C	C	C	C	Daily: check, clean as needed
Fire Pump	(2)	(2)			Sat; test run overboard
Deluge & Sprinkler Pumps	Del (2)	Spr (2)			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO	340	Bilgewater	330	Sewage 2620 Gallons
DB SOUNDINGS (Sat Night):	DB1 C	DB2 C	DB5 C	DB6 C	DB7 C DB8 C All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 22 ME2 19 ME3 18.5 ME4 19 Bi-Weekly Urinal Rx (Blue Seal): Fwd - Aft - ① Added MELO to all 4 ME's. Amounts above. ② 1/4 already ran spr. & Del. pumps, fire pumps, ③ Added 1 pint to A/E3 Coolant Expansion/Reservoir Tank. ④ On ME3- Outboard & Aft- Surface of Stack Blanket is Torn (about 3")					
Name:	Evan Hales	First Engr Initial:	Day:	SAT	Date:
					8/15/15

MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	C	C	C	C	Confirm sump is full.
LO Replenishing Tk Level	3/4(-)	3/4	3/4(-)	3/4	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	T	T	T	T	Keep level at dipstick top notch.
Coolant Level	12.5	10.0	11.5	9.0	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	1/0	1/0	1/0	1/0	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	1/2			Log LO level, carefully blowdown receiver
Engine Room Bilge ①	D	D			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.9	7.8	7.7	7.2	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R	R	R	R	In Remote
Lube Oil Level	8.8	7.4	8.3	7.3	Log level 7.0 - 9.0 cm normal
Coalescer Filter	C	C	C	C	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	C	C	C	C	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	D	D			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	C	C	C	C	Check for FO, LO, or coolant leaks
Coolant Level	C	C	C	C	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	C	C	C	C	Check Pump & NFV for leaks
ME Parker Pre-Filters	C	C	C	C	Drain Water, Log Amount, Reset Red Needle
NFV Sludge Tank	Stbd C		Port C		Check drain, Log discharge amount
Fuel Tank Sounding	DB3 2'9"; 5'3"		DB4 2'7"; 5'1"		Before & after fueling
Compartment Decks: 1,2,3,4,5,6	C	C	C	C	C C Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.2	8.7			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	C	C			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					
Fresh Water & Chillwater Pumps	FW1 C	FW2 C	CW1 C	CW2 C	Check pumps
Deluge, Sprinkler, HVAC Pumps	C	Del C	Spr C	HVAC C	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 10.3	Temp 35	Aft 9.0	Temp 35	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7.2	Temp 33			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine	—	—	—	—	Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's	C	C	C	C	Daily: check, clean as needed
Fire Pump	—	—			Sat; test run overboard
Deluge & Sprinkler Pumps	Del —	Spr —			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO	340	Bilgewater	330	Sewage 2620 Gallons
DB SOUNDINGS (Sat Night):	DB1 —	DB2 —	DB5 —	DB6 —	DB7 — DB8 — All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery:					
Lube Oil: ME1 — ME2 — ME3 — ME4 — Bi-Weekly Urinal Rx (Blue Seal): Fwd — Aft —					
① SERB - water pockets; PERB oily spots,					
② Swept in Comp. 2. Lots of salt.					
Name: Evan Hales	First Engr Initial: [Signature]	Day: Sun	Date: 8/16/15		

M/V Chenega Engineering Log

Sunday, 16 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5366	5433	10799	580	1000	105	93
Received (Transferred)				270			
Onboard @ 0600 (Stby)	5370	5410	10780	850	1110		
Onboard @ 1800 (FWE)	2650	2650	5300	730	1740		
Onboard @ 2400	5695	5726	11421	657	1770	106	93
Consumed (Produced)			5378	193	770	0	0
Marine Diesel #1 / 2	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
from Tank Truck	6000	60°	34.1	154	1910	1935	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 (3) 4		
Departure Port	ABY	SIT					
Arrival Port	SIT	ABY			FO Boost Pump 1 2 (3) 4		
OP3.2 Dep / OP1.2 Arr	✓ ✓	✓ ✓	I	I			
Start (Clutch In)	0630	1212			Parker FO Filter Press ("Hg)		
Stop (Clutch Out)	1153	1648			4-0.0 2-0.0 1-0.0 3-0.0		
Run Hours	5.4	4.6			NFV Supply Diff (Bar mBar)		
Run Miles	136	136			P-1.0 10.1 S-0.8 1.08		
Car Deck Fans ON	0550	1153	1649		WJ Hyd Filter Cart (1) 2 3 (4)		
Car Deck Fans OFF	0612	1208	1656		Shore Sewage @ 2400 2620		
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0000	0507	5.1	469/469	99/96	60/62	
	1652	2400	7.1	475	85.85	55.54	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E		Wiper	
	Akstin	Provost	Gassan	Dove		Hales	

Operation, Maintenance, and Inspection Comments:

Day Chief Engineer

Night Chief Engineer

M/V Chenega Sea Log (Page 1 of 2)

Propulsion (Engines)

	ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3
Engine Speed (rpm) - ECU	1824	1823	1816	1823	Engine Speed (rpm) - ECU	1824	1824	1816	1825	ETC Speed 1 (A1) (krpm)	49.3	48.6	48.9	49.0	ME3				
Running Hours (hrs)	705	768	776	760	Raw Water Pressure (bar)	3.2	3.3	3.2	3.2	ETC Speed 2 (B1) (krpm)	49.1	49.0	48.3	49.6					
Coolant Temperature (°C) - ECU	80.8	80.3	82.0	78.5	Coolant Pressure (bar)	5.5	5.4	5.8	5.4	ETC Speed 3 (A2) (krpm)	49.4	49.2	49.5	49.4					
Coolant Temperature (°C) - ECU	80.1	80.0	81.4	79.3						ETC Speed 4 (B2) (krpm)	49.3	49.0	49.5	49.2					
Lube Oil Temperature (°C)	73.2	73.5	74.4	72.7	Lube Oil Pressure (bar) - ECU	7.1	7.1	7.3	6.9	Pie ETC 1 (A1) Exhaust Temp (°C)	589.3	579.5	579.2	581.1					
					Lube Oil Pressure (bar) - ECU	7.2	7.1	7.4	6.9	Pie ETC 2 (B1) Exhaust Temp (°C)	586.5	563.0	568.8	571.0					
					Lube Oil Before Filtr Pressure (bar)	7.4	7.4	7.7	7.2	Pie ETC 3 (A2) Exhaust Temp (°C)	544.7	536.6	538.9	542.7					
					Lube Oil Filter Diff Pressure (bar)	0.4	0.3	0.3	0.3	Pie ETC 4 (B2) Exhaust Temp (°C)	618.8	611.1	619.2	615.0					
Fuel Temperature (°C)	42.5	50.0	50.2	45.8	Fuel Oil Pressure (bar)	7.5	7.3	7.6	7.7	Mean Exhaust Temp (°C)	544	540	548	542					
					Fuel Oil Before Filtr Pressure (bar)	7.8	7.7	7.7	7.8	Mean Main Bearing Temp (°C)	101.8	103.8	105.5	102.8					
Intake Air Temperature (°C)	31.5	25.8	25.0	27.5	Fuel Oil Filter Diff Pressure (bar)	0.3	0.4	0.1	0.1	Mean Bearing Splash Oil Temp (°C)	88.5	89.4	90.4	88.0					
Charge Air Temperature (°C)	54.0	54.0	53.9	53.9	Crank Case Pressure (inbar)	-8.26	-7.98	-6.58	-8.12	Red Gear Control Oil Pressure (bar)	23.9	24.2	24.3	23.3					
Charge Air Seq Ctrl Vlv Temp (°C)	155.5	152.7	154.1	157.1	Charge Air Pressure (bar)	3.2	3.2	3.2	3.2	Red Gear Oil Temperature (°C)	63.5	58.1	59.7	58.7					
					Start Air Pressure (bar)	8.1	8.2	8.3	8.3										
Fuel Consumption (ECU Est.) (l/hr)	722	700	724	728															
Load (% of DBR)	79.9	78.5	80.8	80.0															
Water Jet Shaft RPM	644	645	641	644															

Propulsion (Waterjets)

	ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3
Reversing Hydraulic Oil Pressure	OK	OK	OK	OK	Lube Oil Pressure	OK	OK	OK	OK
Steering Hydraulic Oil Pressure	OK	OK	OK	OK	Lube Oil Level	OK	OK	OK	OK

Power Management

	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG4	SSDG2	SSDG1	SSDG3
Voltage (V)	478.8	0.0	0.0	479.6	0.0	0.0	3.5	-0.3	0.1	3.4
Current (A)	85.1	0.0	0.0	82.1	0.0	0.0	72.0	57.9	58.7	75.0
Power (kW)	48.2	0.0	0.0	53.0	0.0	0.0	260.8	43.2	34.7	274.0
Power Factor	-0.70	1.00	1.00	-0.77			54.0	37.8	41.1	56.2
Frequency (Hz)	60.0	0.0	0.0	60.0			57.1	37.3	41.1	56.0
Starting Battery Voltage (V)	26.6	26.9	26.8	26.8			53.5	36.5	40.5	54.9
Engine Hours	14849	15333	15773	15681	Tie Breaker Status:					

Miscellaneous

	PORT	STBD	PORT	STBD
Fuel Oil Tank	gal 3649	% 52.8	Fuel Oil Service Tank Level	OK
Lube Oil Tank	106	57.4	SW Flushing Pressure (bar)	Forward 2.0 Alt 2.1

Comments Lever 9.0

S.O.G.: 34.1

S.T.W.: 33.9

Wind Spd: 15

Wind Dir: 000

Seas: 4'0"

M.D.: 6'11"

Route: SIT-3NU

Date/Time: 08/16/15 13:52:52

Signature:

Robert P. Pabich

Print

IMACS

M/V Chenega Sea Log (Page 2 of 2)

Propulsion (Engines)

Exhaust Temperatures	ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Piston Cooling Splash Oil Temperatures	ME4	ME2	ME1	ME3
Cylinder A1 (°C)	541	537	554	539	Bearing 1 (°C)	98.4	100.2	99.8	99.7	1 (°C)	88.8	89.8	90.5	88.2
Cylinder A2 (°C)	541	526	537	531	Bearing 2 (°C)	104.0	105.9	108.2	105.5	2 (°C)	88.1	90.3	90.6	88.0
Cylinder A3 (°C)	540	548	548	537	Bearing 3 (°C)	105.1	108.2	110.5	106.6	3 (°C)	89.4	90.9	91.6	88.2
Cylinder A4 (°C)	544	561	543	528	Bearing 4 (°C)	106.6	107.4	110.1	107.9	4 (°C)	88.8	89.3	91.1	88.0
Cylinder A5 (°C)	524	541	540	548	Bearing 5 (°C)	102.1	104.7	105.5	102.1	5 (°C)	87.7	89.2	90.3	87.4
Cylinder A6 (°C)	549	544	553	531	Bearing 6 (°C)	102.5	106.1	108.2	102.8	6 (°C)	87.9	89.2	90.9	87.2
Cylinder A7 (°C)	534	534	548	546	Bearing 7 (°C)	101.0	104.4	106.2	102.4	7 (°C)	89.1	90.1	91.1	88.7
Cylinder A8 (°C)	558	556	568	562	Bearing 8 (°C)	103.2	105.2	108.2	104.4	8 (°C)	89.2	89.9	90.2	88.6
Cylinder A9 (°C)	555	536	542	538	Bearing 9 (°C)	100.8	105.1	103.6	102.5	9 (°C)	87.6	88.8	88.8	87.5
Cylinder A10 (°C)	544	520	551	543	Bearing 10 (°C)	102.1	103.2	106.7	102.1	10 (°C)	87.5	87.8	88.9	86.1
Cylinder B1 (°C)	549	540	554	541	Bearing 11 (°C)	91.1	91.6	95.2	92.3					
Cylinder B2 (°C)	549	540	539	541										
Cylinder B3 (°C)	543	540	554	545										
Cylinder B4 (°C)	545	537	545	545										
Cylinder B5 (°C)	537	535	540	548										
Cylinder B6 (°C)	551	542	559	555										
Cylinder B7 (°C)	538	534	536	542										
Cylinder B8 (°C)	564	561	565	552										
Cylinder B9 (°C)	531	536	551	536										
Cylinder B10 (°C)	532	534	524	533										
Mean Exhaust Temp (°C)	544	540	548	542	Mean Main Bearing Temp (°C)	101.5	103.8	105.5	102.6	Mean Bearing Splash Oil Temp (°C)	88.5	89.5	90.4	88.0

Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

HMON/ADIS

4 Active Alarms

4 Historic Alarms

Disk Log

Runtimes

Print

PMC
IMACS

Comments

Date/Time: 08/16/15 13:53:59

Signature:

Robert Pank

Main	Propulsion	Power Mgt	Blige	Tanks	HVAC	Doors	Fire	Collectors
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Blige Equipment

Date/Time: 08/16/15 18:40:44

PORT Bow Thruster Blige Pump
 Compartment 2 Blige Pump
 Compartment 4 Blige Pump
 Compartment 6 Blige Pump
 Double Bottom 6 Blige Pump
 Double Bottom 8 Blige Pump
 PORT Engine Room Blige Pump
 PORT Water Jet Space Blige Pump

0
0
0
0
0
0
0
0

STBD Bow Thruster Blige Pump
 Compartment 1 Blige Pump
 Compartment 3 Blige Pump
 Compartment 5 Blige Pump
 Double Bottom 5 Blige Pump
 Double Bottom 7 Blige Pump
 STBD Engine Room Blige Pump
 STBD Water Jet Space Blige Pump

0
0
0
0
0
0
0
0

Water/Jet Equipment

Water Jet WJ2 Lube Oil Pump
 Water Jet WJ4 Lube Oil Pump
 Water Jet WJ2 Hydraulic Power Pack
 Water Jet WJ4 Hydraulic Power Pack

2984
2984
172
292

Water Jet WJ3 Lube Oil Pump
 Water Jet WJ1 Lube Oil Pump
 Water Jet WJ3 Hydraulic Power Pack
 Water Jet WJ1 Hydraulic Power Pack

2950
2954
244
235

Diesel Generators

SSDG 2
 SSDG 4

15333
14840

SSDG 1
 SSDG 3

15773
15672

Ventilation Fans

PORT Engine Room Supply Fan 2 High
 PORT Engine Room Supply Fan 2 Low
 PORT Engine Room Supply Fan 4 High
 PORT Engine Room Supply Fan 4 Low
 Vehicle Deck PORT FWD Exhaust Fan 2
 Vehicle Deck PORT AFT Exhaust Fan 4

247
884
62
778
82
46

STBD Engine Room Supply Fan 3 High
 STBD Engine Room Supply Fan 3 Low
 STBD Engine Room Supply Fan 1 High
 STBD Engine Room Supply Fan 1 Low
 Vehicle Deck STBD FWD Exhaust Fan 1
 Vehicle Deck STBD AFT Exhaust Fan 3

84
669
245
950
79
50

Fuel Services

PORT Fuel Oil Booster Pump 2
 PORT Fuel Oil Booster Pump 4

1057
800

STBD Fuel Oil Booster Pump 1
 STBD Fuel Oil Booster Pump 3

1027
841

Services

PORT Air Compressor
 PORT Sprinkler Pump
 PORT Fire Pump
 Fresh Water Pump 1
 Fresh Water Pump 2
 Interceptor/Stern Door Hydraulic Power Pack 1
 Interceptor/Stern Door Hydraulic Power Pack 2

3511
0
2
3726
0
48
0

STBD Air Compressor
 STBD Deluge Pump
 STBD Fire Pump
 Sewage Transfer Pump
 HVAC Chiller Water Pump 1
 HVAC Chiller Water Pump 2
 HVAC Sea Water Pump 1

2122
1
1
14
2409
707
738

Propulsion

Main Engine 2
 Main Engine 4

761
697

Main Engine 1
 Main Engine 3

769
753

Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

MST/ADIS

Active Alarms

Historic Alarms

Disk Log

Routines

Print

IMACS

MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	F	F	F	F	Confirm sump is full.
LO Replenishing Tk Level	11/16	11/16	11/16	5/8+	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	T	T	T	T	Keep level at dipstick top notch.
Coolant Level ①	10.5	6.0	10.0	8.5	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	1/0	1/0	1/0	1/6	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	1/2			Log LO level, carefully blowdown receiver
Engine Room Bilge	D	D			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.8	7.4	7.4	7.2	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R	R	R	R	In Remote
Lube Oil Level	8.7	7.6	8.4	7.4	Log level 7.0 - 9.0 cm normal
Coalescer Filter	C	C	C	C	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	C	C	C	C	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	D	D			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	C	C	C	C	Check for FO, LO, or coolant leaks
Coolant Level	C	C	C	C	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	C	C	C	C	Check Pump & NFV for leaks
ME Parker Pre-Filters	C	C	C	C	Drain Water, Log Amount, Reset Red Needle
NFV Sludge Tank	Stbd	C	Port	C	Check drain, Log discharge amount
Fuel Tank Sounding	DB3 30" 5'1"		DB4 2'11" 5'0"		Before & after fueling
Compartment Decks: 1,2,3,4,5,6	C	C	C	C	C C Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.3	8.7			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	C	C			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					
Fresh Water & Chillwater Pumps	FW1 C	FW2 C	CW1 C	CW2 C	Check pumps
Deluge, Sprinkler, HVAC Pumps	C	Del C	Spr C	HVAC C	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 10.3	Temp 36°C	Aft 9.3	Temp 35°C	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7.4	Temp 35°C			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine	—	—	—	—	Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's	C	C	C	C	Daily: check, clean as needed
Fire Pump	—	—			Sat; test run overboard
Deluge & Sprinkler Pumps	Del —	Spr —			Sat; test run ovhd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO 350	Bilgewater 330	Sewage 4500		Gallons
DB SOUNDINGS (Sat Night):	DB1 ~	DB2 ~	DB5 ~	DB6 ~	DB7 ~ DB8 ~ All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 — ME2 — ME3 — ME4 — Bi-Weekly Urinal Rx (Blue Seal): Fwd — Aft — ① ME2 - Coolant level dropped by 4 to 4.5 cm in the Expansion Tank with NO coolant in Bilge. Same as early symptoms of oil ME4. ② Got careless, busted wee valve - bottom of heater unit, coalescer, WJ 4, cleaned up aftermath, after 1/4 fixed connection. ③ Sewage (on shore) Tank pump getting worse.					
Name: Evan Hales	First Eng Initial: <i>[Signature]</i>	Day: MON	Date: 8/17/15		

④ ME10 spatter below Geislinger coupling, ME3. Same like reported on ONL - Thu., 8/13/15. Will clean up.

Monday, 17 August 2015

Operation, Maintenance, and Inspection Comments:

Night Chief Engineer

Propulsion	Power Mgt	Bilge	Tanks	HVAC	Doors	Fire	Collectors
M/V Chenega Sea Log (Page 1 of 2)							
Propulsion (Engines)							
Engine Speed (rpm) ECU-	ME4 1824	ME1 1818	ME3 1824	ME2 1828	ME1 1818	ME3 1825	ME2 48.8
Running Hours (hrs)	715	787	771	3.4	3.4	3.2	49.2
Coolant Temperature (°C) ECU-	80.8	80.6	82.0	79.8	79.7	73.0	49.6
Coolant Temperature (°C) ECU-	80.3	80.0	81.4	79.7	79.7	73.0	49.4
Lube Oil Temperature (°C)	72.9	73.7	74.4	73.0	73.0	73.0	49.3
Fuel Temperature (°C)							
Intake Air Temperature (°C)	29.4	25.8	25.0	27.8	27.8	27.8	543
Charge Air Temperature (°C)	53.8	54.4	53.9	53.9	53.9	53.9	102.7
Charge Air Seq Ctrl Vlv Temp (°C)	155.5	152.7	154.1	157.1	157.1	157.1	88.2
Fuel Consumption (ECU Est.) (lb/hr)	722	688	722	729	729	729	23.6
Load (% of DBR)	79.6	78.4	80.7	80.9	80.9	80.9	58.7
Water Jet Shaft RPM	645	645	642	645	645	645	
Propulsion (WaterJets)							
Reversing Hydraulic Oil Pressure	ME4 OK	ME2 OK	ME1 OK	ME3 OK	ME2 OK	ME1 OK	ME3 OK
Steering Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK
Power Management							
Voltage (V)	SSDG4 0.0	SSDG2 477.7	SSDG1 477.4	SSDG3 0.0	SSDG2 0.0	SSDG1 0.0	SSDG3 0.0
Current (A)	0.0	84.3	83.7	0.0	0.0	0.0	59.5
Power (kW)	0.0	53.3	53.3	0.0	0.0	0.0	41.4
Power Factor	1.00	-0.78	-0.77	1.00			38.5
Frequency (Hz)	0.0	59.9	59.9	0.0			37.7
Starting Battery Voltage (V)	26.2	28.2	26.5	26.3			36.1
Engine Hours	14852	15343	15783	15684			
Miscellaneous							
Fuel Oil Tank	gal 3837	% 55.5	gal 3934	% 56.9	gal 520	% 52.0	
Lube Oil Tank	105	57.0	93	50.2	592	16.4	
Comments							
Lever: 9.0 S.O.G.: 33.8 S.T.W.: 32.8 Wind Spd: 5 Wind Dir: 000 Seas: 1.0" MD: 7'4"							
Route: SIT-JNU							
Date/Time: 08/17/15 14:49:05							
Signature: <i>Robert Paulsen</i>							



M/V Chenega Sea Log (Page 2 of 2)

Propulsion (Engines)

Exhaust Temperatures	ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Piston Cooling Splash Oil Temperatures	ME4	ME2	ME1	ME3	Collectors
Cylinder A1 (°C)	543	538	558	543	Bearing 1 (°C)	98.1	100.3	99.9	98.8	1 (°C)	88.4	89.5	90.5	88.2	ME3
Cylinder A2 (°C)	541	532	538	534	Bearing 2 (°C)	104.0	105.9	108.5	105.5	2 (°C)	88.7	90.3	90.8	89.0	ME1
Cylinder A3 (°C)	541	548	547	538	Bearing 3 (°C)	105.1	108.2	110.8	106.6	3 (°C)	89.4	90.8	91.6	89.2	ME2
Cylinder A4 (°C)	545	551	546	532	Bearing 4 (°C)	106.6	107.4	110.5	108.2	4 (°C)	88.8	89.3	91.1	88.0	
Cylinder A5 (°C)	526	540	538	551	Bearing 5 (°C)	102.1	104.7	105.7	102.5	5 (°C)	87.7	89.0	90.2	87.6	
Cylinder A6 (°C)	553	546	550	532	Bearing 6 (°C)	102.5	105.8	108.2	103.2	6 (°C)	87.9	88.9	89.9	87.5	
Cylinder A7 (°C)	535	535	546	545	Bearing 7 (°C)	101.0	104.4	106.2	102.5	7 (°C)	88.8	90.1	91.1	88.7	
Cylinder A8 (°C)	558	559	568	561	Bearing 8 (°C)	103.2	105.2	108.2	104.8	8 (°C)	88.8	89.5	90.5	88.4	
Cylinder A9 (°C)	558	541	546	538	Bearing 9 (°C)	100.6	105.2	103.6	102.5	9 (°C)	87.6	88.8	89.8	87.5	
Cylinder A10 (°C)	545	525	552	545	Bearing 10 (°C)	102.1	103.2	106.6	102.1	10 (°C)	86.7	87.5	89.0	86.8	
Cylinder B1 (°C)	547	539	555	541	Bearing 11 (°C)	90.9	91.6	95.2	92.3						
Cylinder B2 (°C)	548	539	538	542											
Cylinder B3 (°C)	544	540	553	544											
Cylinder B4 (°C)	546	535	546	545											
Cylinder B5 (°C)	539	533	541	548											
Cylinder B6 (°C)	552	542	550	555											
Cylinder B7 (°C)	541	535	537	540											
Cylinder B8 (°C)	567	560	565	550											
Cylinder B9 (°C)	532	537	551	535											
Cylinder B10 (°C)	532	534	523	533											
Mean Exhaust Temp (°C)	545	541	548	542	Mean Main Bearing Temp (°C)	101.5	103.8	105.6	102.7	Mean Bearing Splash Oil Temp (°C)	88.3	89.4	90.4	88.1	

Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

HMN/ADIS

Active Alarms

Historic Alarms

Disk Log

Runtimes

Print

IMACS

Comments

Date/Time: 08/17/15 14:50:22

Signature:

Robert Parker

MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.
LO Replenishing Tk Level	5/8+	3/4	5/8	5/8	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	Full	Full	Add	Add	Keep level at dipstick top notch.
Coolant Level	10.5	6.5	10.5	8.5	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	0/1	0/1	0/1	0/1	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	Dry	Dry			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.7	7.2	7.5	7.0	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.7	7.4	8.5	8.2	Log level 7.0 - 9.0 cm normal
Coalescer Filter	W-NO	H-NO	W-NO	H-NO	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	SLIGHTLY DAMP	Dry			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	Full	Add	Full	Add	Check for FO, LO, or coolant leaks
Coolant Level	Full	Full	Topped	Full	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	OFF	OFF	OFF	OFF	Check Pump & NFV for leaks
ME Parker Pre-Filters	NONE	NONE	NONE	NONE	Drain Water, Log Amount, <u>Reset Red Needle</u>
NFV Sludge Tank	Stbd	NONE	Port	NONE	Check drain, Log discharge amount
Fuel Tank Sounding	DB3	—	DB4	—	Before & after fueling
Compartment Decks: 1,2,3,4,5,6	Dry	Dry	Dry	Dry	Dry Dry Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.1	9.0			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	Dry	Dry			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1 OK	FW2 OK	CW1 OK	CW2 OK	Check pumps
Deluge, Sprinkler, HVAC Pumps		Del OK	Spr OK	HVAC OK	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 9cm	Temp 95°	Aft 9cm	Temp 99°	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7cm	Temp 78°			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine					Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's	ALL CLEAR				Daily: check, clean as needed
Fire Pump					Sat; test run overboard
Deluge & Sprinkler Pumps	Del	Spr			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO	355	Bilgewater	325	Sewage 5000 Gallons
DB SOUNDINGS (Sat Night):	DB1 Dry	DB2 Dry	DB5 Dry	DB6 Dry	DB7 Dry DB8 Dry (All Dry)
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 <u>0</u> ME2 <u>0</u> ME3 <u>0</u> ME4 <u>0</u> Bi-Weekly Urinal Rx (Blue Seal): Fwd <u>—</u> Aft <u>—</u> • Added LO to AE#2 <u>1 1/2</u> gal • Added <u>1/2</u> gal RGLO to #3 • Added LO to AE#4 <u>1/2</u> gal • Added <u>1/2</u> gal RGLO to #4 • Topped up AE#3 <u>1/4</u> gal COOLANT • Topped up ME#2 <u>3</u> gal COOLANT START 6.5cm FINISH 10 cm.					
Name: LADWIG	First Engr Initial:	Day: Tuesday	Date: 8-18-2015		

M/V Chenega Engineering Log

Tuesday, 18 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5498	5511	11009	442	886	106	93
Received (Transferred)				410			
Onboard @ 0600 (Stby)	5498	5511	11009	852	900		
Onboard @ 1800 (FWE)							
Onboard @ 2400	5498	5511	11009	792	1025	106	93
Consumed (Produced)			0	60	125	0	0
Marine Diesel #1 / 2	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
from Tank Truck							
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 3 4		
Departure Port							
Arrival Port					FO Boost Pump 1 2 3 4		
OP3.2 Dep / OP1.2 Arr	I	I	I	I			
Start (Clutch In)					Parker FO Filter Press ("Hg)		
Stop (Clutch Out)					4-	12-	1-
Run Hours					NFV Supply Diff (Bar mBar)		
Run Miles					P-		S-
Car Deck Fans ON					WJ Hyd Filter Cart 1 2 3 4		
Car Deck Fans OFF					Shore Sewage @ 2400 4500		
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0000			469/469	82/82	52/51	
		2400		468/468	85/85	61/61	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Akstin	Provost	Gassan	Dove	Hales		

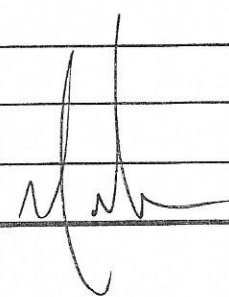
Operation, Maintenance, and Inspection Comments:

0630 - 0730 FIRE AND BOAT DRILL.

Day Chief Engineer



Night Chief Engineer



MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.
LO Replenishing Tk Level	5/8	5/8	5/8	1/2++	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	Full	Full	Full	Full	Keep level at dipstick top notch.
Coolant Level	9.5	5.0	10.0	8.0	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	0/1	0/1	0/1	0/1	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	Dry	oil			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.7	7.3	7.5	7.2	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.7	7.4	8.4	8.2	Log level 7.0 - 9.0 cm normal
Coalescer Filter	H-NO	H-NO	H-NO	H-NO	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	slight damp	Dry			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	Full	9/10	Full	Full	Check for FO, LO, or coolant leaks
Coolant Level	Full	Full	Full	Full	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	ON	ON	OFF	OFF	Check Pump & NFV for leaks
ME Parker Pre-Filters	NONE	NONE	NONE	NONE	Drain Water, Log Amount, <u>Reset Red Needle</u>
NFV Sludge Tank	Stbd	NONE	Port	NONE	Check drain, Log discharge amount
Fuel Tank Sounding	DB3	5'-3"	DB4	5'-1"	Before & after fueling <u>NO H2O</u>
Compartment Decks: 1,2,3,4,5,6	Dry	Dry	Dry	Dry	Dry Dry Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.1	9.0			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	Dry	Dry			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1 OK	FW2 OK	CW1 OK	CW2 OK	Check pumps
Deluge, Sprinkler, HVAC Pumps		Del OK	Spr OK	HVAC OK	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 9cm	Temp 95°	Aft 9cm	Temp 97°	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7cm	Temp 78°			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine					Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's		ALL	CLEAR		Daily: check, clean as needed
Fire Pump					Sat; test run overboard
Deluge & Sprinkler Pumps	Del	Spr			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO	355	Bilgewater	325	Sewage 5000 Gallons
DB SOUNDINGS (Sat Night):	DB1	DB2	DB5	DB6	DB7 DB8 All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 <u>0</u> ME2 <u>0</u> ME3 <u>0</u> ME4 <u>0</u> Bi-Weekly Urinal Rx (Blue Seal): Fwd <u>—</u> Aft <u>—</u> ME#2 START @ 5cm filled to 10cm Added 4 gal COOLANT TO EXPANSION TANK.					
Name: LADWIG	First Engr Initial:	Day: Wednesday	Date: 8-19-2015		

M/V Chenega Engineering Log

Wednesday, 19 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5498	5511	11009	792	1025	106	93
Received (Transferred)							
Onboard @ 0600 (Stby)	5460	5480	10940	780	1060		
Onboard @ 1800 (FWE)	2600	2560	5160	610	1720		
Onboard @ 2400	5653	5690	11343	906	1862	104	93
Consumed (Produced)			5666	114	837	2	0
Marine Diesel #1 / 2	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
from Tank Truck	6,000	60°	37	154°	1814	1838	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator ① ② 3 4		
Departure Port	ABY	SIT					
Arrival Port	SIT	ABY			FO Boost Pump ① ② 3 4		
OP3.2 Dep / OP1.2 Arr	✓ 1 ✓	✓ 1 ✓	1	1	Parker FO Filter Press ("Hg)		
Start (Clutch In)	0630	1157			4-0.0 2-1.0 1-2.0 3-2.0		
Stop (Clutch Out)	1119	1624			NFV Supply Diff (Bar mBar)		
Run Hours	4.8	4.5			P-1.0 10.1 S-0.8 1.08		
Run Miles	136	136			WJ Hyd Filter Cart ① ② 3 4		
Car Deck Fans ON	0535	1120	1625		Shore Sewage @ 2400 5000		
Car Deck Fans OFF	0623	1152	1633				
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0000	0501	5.0	468/468	85/85	61/61	
	1628	2400	7.5	465	100.98	64.62	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E		Wiper	
	Akstin	Provost	Gassan	Dove		Hales	

Operation, Maintenance, and Inspection Comments:

Day Chief Engineer



Night Chief Engineer



M/V Chenega Sea Log (Page 1 of 2)

Propulsion (Engines)

	ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3
Engine Speed (rpm) - ECU	1819	1817	1812	1818	Engine Speed (rpm) - EMU	1818	1820	1811	1820	ETC Speed 1 (A1) (krpm)	49.3	48.3	48.7	48.8
Running Hours (hrs)	725	789	797	781	Raw Water Pressure (bar)	3.1	3.2	3.2	3.2	ETC Speed 2 (B1) (krpm)	48.9	48.7	48.9	49.4
Coolant Temperature (°C) - ECU	80.5	80.0	82.0	79.8	Coolant Pressure (bar)	5.3	4.9	5.3	5.4	ETC Speed 3 (A2) (krpm)	49.2	49.0	49.2	49.3
Coolant Temperature (°C) - EMU	79.9	79.7	81.4	79.5	Lube Oil Pressure (bar) - ECU	7.1	7.1	7.3	6.8	ETC Speed 4 (B2) (krpm)	49.1	48.8	49.2	49.1
Lube Oil Temperature (°C)	72.9	73.5	74.4	72.9	Lube Oil Pressure (bar) - EMU	7.2	7.2	7.4	6.9	Pie ETC 1 (A1) Exhaust Temp (°C)	591.2	577.3	581.1	593.3
					Lube Oil Before Filt Pressure (bar)	7.4	7.5	7.6	7.2	Pie ETC 2 (B1) Exhaust Temp (°C)	588.9	567.2	571.0	572.9
					Lube Oil Filter Diff Pressure (bar)	0.4	0.3	0.4	0.3	Pie ETC 3 (A2) Exhaust Temp (°C)	646.9	636.6	642.7	645.0
Fuel Temperature (°C)	42.1	49.3	49.5	44.9	Lube Oil Pressure (bar)	7.4	7.2	7.6	7.7	Pie ETC 4 (B2) Exhaust Temp (°C)	621.1	613.0	623.3	619.2
					Fuel Oil Before Filt Pressure (bar)	7.8	7.8	7.6	7.7	Mean Exhaust Temp (°C)	545	540	549	544
					Fuel Oil Filter Diff Pressure (bar)	0.4	0.6	0.1	0.0					
Intake Air Temperature (°C)	29.9	26.7	25.6	27.9	Crank Case Pressure (mbar)	-8.47	-7.60	-6.83	-7.63	Mean Main Bearing Temp (°C)	101.3	103.5	105.5	102.5
Charge Air Temperature (°C)	53.8	54.1	54.0	54.2	Charge Air Pressure (bar)	3.1	3.1	3.2	3.1	Mean Bearing Splash Oil Temp (°C)	88.2	89.2	90.4	88.1
Charge Air Seq Ctrl Vlv Temp (°C)	155.4	152.7	154.1	157.1	Start Air Pressure (bar)	8.0	8.1	8.3	8.2					
Fuel Consumption (ECU Est.) (l/hr)	711	692	715	719						Red Gear Control Oil Pressure (bar)	23.9	24.3	24.4	23.1
Load (% of DBR)	79.7	77.5	80.1	79.8						Red Gear Oil Temperature (°C)	63.3	58.0	60.0	59.0
Water Jet Shaft RPM	644	644	641	642										

Propulsion (WaterJets)

	ME4	ME2	ME1	ME3		ME4	ME2	ME1	ME3
Reversing Hydraulic Oil Pressure	OK	OK	OK	OK	Lube Oil Pressure	OK	OK	OK	OK
Steering Hydraulic Oil Pressure	OK	OK	OK	OK	Lube Oil Level	OK	OK	OK	OK

Power Management

	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG4	SSDG2	SSDG1	SSDG3
Voltage (V)	0.0	476.7	476.5	0.0	0.0	0.0	0.1	3.2	3.1	0.0
Current (A)	0.0	97.4	97.9	0.0	0.0	0.0	60.5	75.5	73.3	59.8
Power (kW)	0.0	61.9	61.7	0.0	0.0	0.0	40.7	281.4	278.5	41.6
Power Factor	1.00	-0.77	-0.78	1.00			38.8	56.1	57.4	38.5
Frequency (Hz)	0.0	59.9	59.9	0.0			39.4	57.0	57.4	37.7
Starting Battery Voltage (V)	26.3	28.3	26.5	26.4			37.0	57.7	53.4	36.0
Engine Hours	14853	15354	15795	15684	Tie Breaker Status:	Closed				

Miscellaneous

	PORT	STBD		PORT	STBD
Fuel Oil Tank	gal	%	gal	%	
	3637	52.6	3541	51.2	
Lube Oil Tank	103	55.5	94	50.8	
			Potable Water	641	64.1
			Sewage	1544	42.9
			Fuel Oil Service Tank Level	OK	OK
			SW Flushing Pressure (bar)	Forward	Alt
				3.0	3.1

Comments: Lever: 9.0

Route: SIT-5ND

Date/Time: 08/19/15 13:33:31

S.O.G.: 36.0

ST.W.: 34.5

Wind Spd: 0

Wind Dir: 000

Seas: 1'0"

M.D.: 6'10"

Signature: 

IMACS

M/V Chenega Sea Log (Page 2 of 2)

Propulsion (Engines)

Exhaust Temperatures	ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Piston Cooling Splash Oil Temperatures	ME4	ME2	ME1	ME3
Cylinder A1 (°C)	541	539	556	542	Bearing 1 (°C)	98.0	100.0	99.8	99.8	1 (°C)	98.4	99.4	90.5	98.2
Cylinder A2 (°C)	542	532	538	535	Bearing 2 (°C)	103.8	105.5	108.5	105.5	2 (°C)	98.7	90.3	91.0	98.9
Cylinder A3 (°C)	541	547	551	541	Bearing 3 (°C)	105.1	108.2	110.5	106.6	3 (°C)	99.3	90.5	91.6	99.3
Cylinder A4 (°C)	544	550	546	531	Bearing 4 (°C)	106.3	107.4	110.5	108.1	4 (°C)	98.8	89.2	90.9	98.2
Cylinder A5 (°C)	526	539	541	551	Bearing 5 (°C)	102.1	104.4	105.5	102.1	5 (°C)	97.7	89.0	90.3	87.7
Cylinder A6 (°C)	552	549	555	534	Bearing 6 (°C)	102.5	105.9	106.2	102.9	6 (°C)	97.6	89.1	89.9	97.5
Cylinder A7 (°C)	532	537	548	545	Bearing 7 (°C)	100.6	104.1	106.2	102.5	7 (°C)	98.7	89.9	91.1	99.0
Cylinder A8 (°C)	558	569	569	561	Bearing 8 (°C)	102.8	105.1	108.2	104.4	8 (°C)	98.8	89.8	90.6	98.8
Cylinder A9 (°C)	557	536	542	537	Bearing 9 (°C)	100.6	105.1	103.6	102.5	9 (°C)	97.6	88.6	89.8	97.5
Cylinder A10 (°C)	546	520	552	545	Bearing 10 (°C)	101.7	102.8	106.6	102.1	10 (°C)	96.4	87.9	89.5	96.5
Cylinder B1 (°C)	548	543	556	543	Bearing 11 (°C)	90.9	91.5	95.2	92.3					
Cylinder B2 (°C)	549	537	541	544										
Cylinder B3 (°C)	546	543	556	545										
Cylinder B4 (°C)	546	534	547	547										
Cylinder B5 (°C)	538	534	542	549										
Cylinder B6 (°C)	552	543	562	556										
Cylinder B7 (°C)	538	535	537	544										
Cylinder B8 (°C)	567	560	567	553										
Cylinder B9 (°C)	532	537	554	535										
Cylinder B10 (°C)	533	533	522	535										
Mean Exhaust Temp (°C)	544	540	549	544	Mean Main Bearing Temp (°C)	101.3	103.6	105.5	102.6	Mean Bearing Splash Oil Temp (°C)	88.2	89.4	90.5	88.1

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Sea Log 1

Sea Log 2

Harbor Log

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Date/Time: 08/18/15 13:34:27

Signature:

C. P. P. P.

MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.
LO Replenishing Tk Level	1/2++	5/8	1/2+	1/2	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	Full	Full	Full	Full	Keep level at dipstick top notch.
Coolant Level	8.0	—	10.0	8.5	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	0/1	OFF	0/1	0/1	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	Dry	COOLANT S. OIL			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.8	7.0	7.5	7.2	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.7	7.4	8.4	8.2	Log level 7.0 - 9.0 cm normal
Coalescer Filter	W-NO	H-NO	H-NO	H-NO	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	SLIGHTLY DAMP	Dry			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	Full	7/8	Full	9/10	Check for FO, LO, or coolant leaks
Coolant Level	Full	Full	Full	Full	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	OFF	OFF	OFF	OFF	Check Pump & NFV for leaks
ME Parker Pre-Filters	NONE	NONE	NONE	NONE	Drain Water, Log Amount, Reset Red Needle
NFV Sludge Tank	Stbd	NONE	Port	NONE	Check drain, Log discharge amount
Fuel Tank Sounding	DB3	5'-8"	DB4	4'-8"	Before & after fueling NO H2O
Compartment Decks: 1,2,3,4,5,6	DRY	DRY	DRY	DRY	DRY DRY Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.1	9.0			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	Dry	Dry			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1 OK	FW2 OK	CW1 OK	CW2 OK	Check pumps
Deluge, Sprinkler, HVAC Pumps		Del OK	Spr OK	HVAC OK	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 9cm	Temp 95°	Aft 9cm	Temp 97°	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7cm	Temp 78°			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine					Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's	—	ALL CLEAR	—	—	Daily: check, clean as needed
Fire Pump					Sat; test run overboard
Deluge & Sprinkler Pumps	Del	Spr			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO	355	Bilgewater	325	Sewage 6653 Gallons
DB SOUNDINGS (Sat Night):	DB1	DB2	DB5	DB6	DB7 DB8 All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 — ME2 — ME3 — ME4 — Bi-Weekly Urinal Rx (Blue Seal): Fwd — Aft —					
Name:	LADWIG	First Engr Initial:	Day:	Thursday	Date:
					8-20-2015

M/V Chenega Engineering Log

Thursday, 20 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5653	5690	11343	906	1862	104	93
Received (Transferred)					1692		
Onboard @ 0600 (Stby)	5620	5640	11260	890	170		
Onboard @ 1800 (FWE)	3020	2170	5170	690	900		
Onboard @ 2400	5110	6267	11377	653	996	104	93
Consumed (Produced)			5966	253	846	0	0
Marine Diesel #1 / 2	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
from Tank Truck	6000	60	34	155	1950	2010	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 3 4		
Departure Port	ABY	SIT	ANG				
Arrival Port	SIT	ANG	ABY		FO Boost Pump 1 2 3 4		
OP3.2 Dep / OP1.2 Arr	✓ 1 ✓	✓ 1 ✓	✓ 1 ✓	1			
Start (Clutch In)	0625	1230	1604		Parker FO Filter Press ("Hg)		
Stop (Clutch Out)	1204	1526	1859		4-0.0 12-0.0 1-2.0 3-3.0		
Run Hours	5.5	2.9	2.9		NFV Supply Diff (Bar mBar)		
Run Miles	136	69	77		P-1.0 10.1 S-0.8 1.08		
Car Deck Fans ON	0531	1205	1526	1901	WJ Hyd Filter Cart 1 2 3 4		
Car Deck Fans OFF	0620	1226	1600		Shore Sewage @ 2400 5000		
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0000	0510	5.2	465/465	100/98	64/62	
	1900	2400	6.0	464	98-94	62-61	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E		Wiper	
	Akstin	Provost	Gassan	Dove		Hales	

Operation, Maintenance, and Inspection Comments:

0620 - SECURE ME2 PER PE. ATTACHED TRAILING PUMP.
FUEL NLV SECURED IN WERT SECURED.

Day Chief Engineer

Night Chief Engineer

Main	Propulsion	Power Mgt	Bilge	Tanks	HVAC	Doors	Fire	Collectors
M/V Chenega Sea Log (Page 1 of 2)								
Propulsion (Engines)								
Engine Speed (rpm) -ECU-	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Running Hours (hrs)	1905	0	1894	1904	1906	0	1894	1906
Coolant Temperature (°C) -ECU-	736	792	807	791	3.5	0.0	3.5	3.4
Coolant Temperature (°C) -ECU-	81.5	45.4	83.5	80.9	5.7	0.1	5.6	5.8
Coolant Temperature (°C) -ECU-	81.0	24.9	82.8	80.3				
Lube Oil Temperature (°C)	73.7	31.8	74.9	73.7				
Fuel Temperature (°C)	41.8	21.7	50.6	45.9				
Intake Air Temperature (°C)	30.3	33.3	28.4	27.9				
Charge Air Temperature (°C)	52.1	25.5	52.2	52.1				
Charge Air Seq Ctrl Vlv Temp (°C)	159.8	39.3	95.7	173.1				
Fuel Consumption (ECU Est.) (l/hr)	823	0	830	834				
Load (% of DBF)	89.9	0.0	89.6	90.2				
Water Jet Shaft RPM	675	139	670	673				
Propulsion (WaterJets)								
Reversing Hydraulic Oil Pressure	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Reversing Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK	OK
Reversing Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK	OK
Power Management								
Voltage (V)	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG1	SSDG2
Current (A)	478.5	0.0	0.0	479.1	0.0	0.0	0.1	3.2
Power (kW)	101.9	0.0	0.0	100.8	0.0	0.0	59.9	75.5
Power Factor	63.9	0.0	0.0	67.8	0.0	0.0	36.5	295.0
Frequency (Hz)	-0.75	1.00	1.00	-0.81			42.0	58.6
Battery Voltage (V)	60.0	0.0	0.0	60.0			42.0	58.6
Battery Voltage (V)	26.6	27.0	26.8	26.8			36.6	41.4
Engine Hours	14862	15357	15797	15693			36.9	57.7
Miscellaneous								
Fuel Oil Tank	PORT	%	gal	%	gal	%	STBD	STBD
Fuel Oil Tank	4156	60.1	2956	42.8	753	75.3	OK	OK
Lube Oil Tank	104	56.2	92	49.7	806	16.8	Forward	Aft
Comments: Lever: 9.3 S.O.G.: 31.9 S.T.W.: 29.6 Wind Spd: 8 Wind Dir: 180 Seas: 0.0 M.D.: 6'10"								
Route: SIT-AN6								
Date/Time: 08/20/15 14:17:54								
Signature: <i>Robert Park</i>								

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Sea Log 2

Harbor Log

HMOM/ADIS

4 Active Alarms

4 Historic Alarms

Disk Log

Runtimes

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Propulsion (Engines)				Power Mgt				Blige				Tanks				HVAC				Doors				Fire				Collectors			
Exhaust Temperatures				ME1				ME2				ME3				ME4				ME1				ME2				ME3			
Cylinder A1 (°C)				546				50				555				101.0				33.5				103.2				90.2			
Cylinder A2 (°C)				551				50				548				107.6				39.2				109.3				91.9			
Cylinder A3 (°C)				542				50				543				108.7				41.2				110.4				91.9			
Cylinder A4 (°C)				552				48				545				110.5				41.3				112.4				90.5			
Cylinder A5 (°C)				533				48				562				105.1				41.2				105.5				89.8			
Cylinder A6 (°C)				555				48				542				105.5				41.3				106.2				90.4			
Cylinder A7 (°C)				541				48				556				103.8				41.6				105.5				90.8			
Cylinder A8 (°C)				561				49				577				106.2				41.9				108.2				91.0			
Cylinder A9 (°C)				557				48				543				104.0				41.3				105.9				89.3			
Cylinder A10 (°C)				543				48				551				104.7				40.0				105.2				88.8			
Cylinder B1 (°C)				547				46				546				93.4				36.6				94.8							
Cylinder B2 (°C)				553				47				554																			
Cylinder B3 (°C)				548				46				547																			
Cylinder B4 (°C)				550				47				554																			
Cylinder B5 (°C)				542				47				551																			
Cylinder B6 (°C)				551				47				562																			
Cylinder B7 (°C)				545				47				553																			
Cylinder B8 (°C)				561				47				567																			
Cylinder B9 (°C)				538				47				565																			
Cylinder B10 (°C)				531				47				540																			
Mean Exhaust Temp (°C)				547				48				551				104.6				39.9				108.0				90.5			
Mean Main Bearing Temp (°C)																															
Mean Bearing Splash Oil Temp (°C)																															
Mean Bearing Piston Cooling Oil Temperatures																															
Con Rod Bearing / Piston Cooling Oil Temperatures																															
ME3																															
ME1																															
ME2																															
ME4																															

Comments

Date/Time: 08/20/15 14:19:07

Signature:

[Handwritten Signature]



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Sea Log 1

Sea Log 2

Harbor Log

HMON/ADIS

4 Active Alarms

4 Historic Alarms

Disk Log

Runtimes

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MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.
LO Replenishing Tk Level	1/2	5/8	1/2	3/8	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	Full	Full	Full	Full	Keep level at dipstick top notch.
Coolant Level	7.5	8	10.0	8.0	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	0/1	OFF	0/1	0/1	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	oily	DAMP			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.8	7.1	7.4	7.1	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.7	7.4	8.3	8.2	Log level 7.0 - 9.0 cm normal
Coalescer Filter	W-NO	H-NO	H-NO	H-NO	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	Dry	Dry			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	Full	3/4	Full	7/8	Check for FO, LO, or coolant leaks
Coolant Level	Full	Full	Full	Full	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	OFF	OFF	OFF	OFF	Check Pump & NFV for leaks
ME Parker Pre-Filters	NONE	—	NONE	NONE	Drain Water, Log Amount, <u>Reset Red Needle</u> ®
NFV Sludge Tank	Stbd	NONE	Port	NONE	Check drain, Log discharge amount
Fuel Tank Sounding	DB3	5'-6"	DB4	4'-3"	Before & after fueling
Compartment Decks: 1,2,3,4,5,6	Dry	Dry	Dry	Dry	Dry Dry Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.1	9.0			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	Dry	Dry			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1OK	FW2OK	CW1OK	CW2OK	Check pumps
Deluge, Sprinkler, HVAC Pumps		Del OK	Spr OK	HVAC OK	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 7cm	Temp 78°	Aft 9cm	Temp 96°	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	9cm	Temp 95°			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine					Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's		ALL Clear			Daily: check, clean as needed
Fire Pump					Sat; test run overboard
Deluge & Sprinkler Pumps	Del	Spr			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO	355	Bilgewater	325	Sewage 6653 Gallons
DB SOUNDINGS (Sat Night):	DB1	DB2	DB5	DB6	DB7 DB8 All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 — ME2 — ME3 — ME4 — Bi-Weekly Urinal Rx (Blue Seal): Fwd — Aft —					
Name: LADwig	First Engr Initial:	Day: Friday	Date: 8-21-2015		

M/V Chenega Engineering Log

Friday, 21 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5110	6267	11377	653	996	104	93
Received (Transferred)				247			
Onboard @ 0600 (Stby)	5080	6250	11330	900	1050		
Onboard @ 1800 (FWE)	3350	2800	6150	750	1770		
Onboard @ 2400	4885	6149	11034	737	1841	164	93
Consumed (Produced)			4843	163	845	0	0
Marine Diesel #1 / 2	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
from Tank Truck	6000 490	60°	34	155	1750	2010	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 3 4		
Departure Port	ABY	SIT					
Arrival Port	SIT	ABY			FO Boost Pump 1 2 3 4		
OP3.2 Dep / OP1.2 Arr	✓ 1 ✓	✓ 1 ✓	1	1			
Start (Clutch In)	0625	1256			Parker FO Filter Press ("Hg)		
Stop (Clutch Out)	1230	1802			4-0.0 2-0.0 1-2.0 3-3.0		
Run Hours	6.1	5.1			NFV Supply Diff (Bar mBar)		
Run Miles	136	136			P-1.0 0.1 S-0.8 1.08		
Car Deck Fans ON	0535	1231	1803		WJ Hyd Filter Cart (1) (2) 3 4		
Car Deck Fans OFF	0606	1249	1809		Shore Sewage @ 2400 6653		
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0000	0505	5.1	464/464	98/94	62/61	
	1804	2400	5.9	465	91.88	56.54	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Akstin	Provost	Gassan	Dove	Ladwig		

Operation, Maintenance, and Inspection Comments:

Day Chief Engineer

Night Chief Engineer

M/V Chenega Sea Log (Page 1 of 2)

Propulsion (Engines)

	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Engine Speed (rpm) ECU	1898	0	1888	1800	Engine Speed (rpm) EMU	0	1890	1898	1898	0	1890	1898	1898	0	1890	1898
Running Hours (hrs)	748	0	820	804	Raw Water Pressure (bar)	3.4	0.0	3.4	3.4	0.0	3.4	3.4	3.4	0.0	3.4	3.4
Coolant Temperature (°C) ECU	81.5	0.0	83.0	80.9	Coolant Pressure (bar)	5.7	0.0	5.8	5.8	0.0	5.8	5.8	5.8	0.0	5.8	5.8
Coolant Temperature (°C) EMU	80.9	0.0	82.4	80.6	Lube Oil Pressure (bar) ECU	7.2	0.0	7.3	7.0	0.0	7.3	7.0	7.0	0.0	7.3	7.0
Lube Oil Temperature (°C)	73.8	0.0	75.1	73.7	Lube Oil Pressure (bar) EMU	7.3	0.0	7.4	7.0	0.0	7.4	7.0	7.0	0.0	7.4	7.0
					Lube Oil Before Filtr Pressure (bar)	7.6	0.0	7.7	7.3	0.0	7.7	7.3	7.3	0.0	7.7	7.3
					Lube Oil Filter Diff Pressure (bar)	0.4	0.0	0.4	0.3	0.0	0.4	0.3	0.3	0.0	0.4	0.3
Fuel Temperature (°C)	42.2	0.0	50.5	45.6	Fuel Oil Pressure (bar)	7.2	0.0	7.4	7.4	0.0	7.4	7.4	7.4	0.0	7.4	7.4
					Fuel Oil Before Filtr Pressure (bar)	7.8	0.0	7.5	7.5	0.0	7.5	7.5	7.5	0.0	7.5	7.5
					Fuel Oil Filter Diff Pressure (bar)	0.4	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1
Intake Air Temperature (°C)	29.8	0.0	28.8	26.6	Crank Case Pressure (mbar)	-8.75	0.00	-5.98	-6.41	0.00	-5.98	-6.41	-6.41	0.00	-5.98	-6.41
Charge Air Temperature (°C)	52.1	0.0	52.0	51.9	Charge Air Pressure (bar)	3.5	0.0	3.5	3.5	0.0	3.5	3.5	3.5	0.0	3.5	3.5
Charge Air Seq Ctrl Vlv Temp (°C)	168.2	0.0	169.8	173.1	Start Air Pressure (bar)	8.1	0.0	8.2	8.2	0.0	8.2	8.2	8.2	0.0	8.2	8.2
Fuel Consumption (ECU Est.) (l/hr)	824	0	927	837												
Load (% of DBR)	89.8	0.0	89.7	90.3												
Water Jet Shaft RPM	672	132	669	672												

Propulsion (WaterJets)

	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Reversing Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK	OK
Steering Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK	OK

Power Management

	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG4	SSDG2	SSDG1	SSDG3
Voltage (V)	477.1	0.0	0.0	477.8	0.0	0.0	3.3	-0.3	0.1	3.5
Current (A)	116.4	0.0	0.0	111.7	0.0	0.0	67.1	58.7	55.0	76.2
Power (kW)	69.4	0.0	0.0	72.9	0.0	0.0	287.9	42.9	36.2	304.6
Power Factor	-0.72	1.00	1.00	-0.79			55.6	36.3	41.2	59.3
Frequency (Hz)	60.0	0.0	0.0	60.0			59.0	36.0	41.3	59.1
Starting Battery Voltage (V)	26.6	27.1	26.8	26.8			55.5	36.3	40.6	50.3
Engine Hours	14876	15357	15797	15707						

Miscellaneous

	PORT	STBD	PORT	STBD
Fuel Oil Tank	gal 3911	% 56.6	Fuel Oil Service Tank Level	OK
Lube Oil Tank	gal 104	% 56.4	SW Flushing Pressure (bar)	Forward 3.2 Alt 3.4

Comments: Lever 9.3

S.O.G.: 29.8 S.T.W.: 29.8 Wind Spd: 10

Wind Dir: 000

Seas: 3'0"

M.D.: 6'9"

Route:

Date/Time: 09/21/15 14:38:00

Signature:

Robert P. [Signature]



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Sea Log 1

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Harbor Log

HMON/ADIS

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Runtimes

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IMACS

Propulsion (Engines)

M/V Chenega Sea Log (Page 2 of 2)

Exhaust Temperatures	ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Piston Cooling Splash Oil Temperatures	ME4	ME2	ME1	ME3	Collectors
Cylinder A1 (°C)	544	0	557	553	Bearing 1 (°C)	101.0	0.0	102.8	103.2	1 (°C)	89.8	0.0	91.9	90.0	ME3
Cylinder A2 (°C)	550	0	554	552	Bearing 2 (°C)	107.8	0.0	112.5	108.7	2 (°C)	90.4	0.0	92.4	90.8	ME1
Cylinder A3 (°C)	543	0	557	545	Bearing 3 (°C)	108.8	0.0	114.6	110.4	3 (°C)	91.4	0.0	93.3	91.3	ME2
Cylinder A4 (°C)	552	0	555	546	Bearing 4 (°C)	110.5	0.0	114.7	112.4	4 (°C)	90.5	0.0	92.7	90.1	ME4
Cylinder A5 (°C)	536	0	551	561	Bearing 5 (°C)	105.2	0.0	108.9	105.5	5 (°C)	89.8	0.0	92.1	89.9	ME3
Cylinder A6 (°C)	558	0	565	543	Bearing 6 (°C)	105.5	0.0	108.3	106.2	6 (°C)	90.4	0.0	91.7	90.0	ME1
Cylinder A7 (°C)	542	0	564	557	Bearing 7 (°C)	103.8	0.0	108.3	105.5	7 (°C)	90.8	0.0	92.9	90.8	ME2
Cylinder A8 (°C)	559	0	578	569	Bearing 8 (°C)	106.2	0.0	112.0	108.2	8 (°C)	91.0	0.0	92.0	90.2	ME4
Cylinder A9 (°C)	555	0	555	544	Bearing 9 (°C)	103.9	0.0	107.0	105.9	9 (°C)	89.3	0.0	91.5	89.6	ME3
Cylinder A10 (°C)	543	0	558	553	Bearing 10 (°C)	104.8	0.0	110.1	105.2	10 (°C)	88.8	0.0	90.8	88.8	ME1
Cylinder B1 (°C)	553	0	562	547	Bearing 11 (°C)	93.4	0.0	97.3	94.9						ME2
Cylinder B2 (°C)	545	0	549	554											ME4
Cylinder B3 (°C)	549	0	564	548											ME3
Cylinder B4 (°C)	551	0	557	555											ME1
Cylinder B5 (°C)	541	0	548	552											ME2
Cylinder B6 (°C)	554	0	569	563											ME4
Cylinder B7 (°C)	544	0	554	553											ME3
Cylinder B8 (°C)	561	0	570	557											ME1
Cylinder B9 (°C)	540	0	562	547											ME2
Cylinder B10 (°C)	528	0	532	541											ME4
Mean Exhaust Temp (°C)	548	0	559	552	Mean Main Bearing Temp (°C)	104.6	0.0	109.0	108.1	Mean Bearing Splash Oil Temp (°C)	90.2	0.0	92.2	90.1	ME3

Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

HMOM/ADIS

4 Active Alarms

4 Historic Alarms

Disk Log

Runtimes

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IMACS



M/V Chenega Engineering Log

Saturday, 22 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	4885	6149	11034	413	2065	78	93
Received (Transferred)				467	1815		
Onboard @ 0600 (Stby)	4610	6140	10750	880	250	78	24
Onboard @ 1800 (FWE)	3220	4040	7260	750	820		
Onboard @ 2400	5202	6211	11413	761	930	105	124
Consumed (Produced)			3721	179	680	27	31
Marine Diesel #1 / 2 from Tank Truck	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
	4100	58	34.6	154	1844	1913	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator	1 2 3 4	
Departure Port	ABY	ANG	SIT		FO Boost Pump	1 2 3 4	
Arrival Port	ANG	SIT JNU	ABY			1 2 3 4	
OP3.2 Dep / OP1.2 Arr	✓ 1 ✓	✓ 1 ✓	1	1			
Start (Clutch In)	0628	1030				Parker FO Filter Press ("Hg)	
Stop (Clutch Out)	1002	1519				4- 0.0 2- 0.0 1- 6.0 3- 6.0	
Run Hours	3.1	4.8				NFV Supply Diff (Bar mBar)	
Run Miles	77	87				P- 1.0 1.13 S- 0.8 0.1	
Car Deck Fans ON	0533	1002	1519			WJ Hyd Filter Cart 1 2 3 4	
Car Deck Fans OFF	0623	1027	1539		Shore Sewage @ 2400 1300		
Shore Power	Time Start	Time Stop	Hours	Voltage (V avg)	Current (I avg)	Power (kW avg)	
	0000	0512	5.2	464/464	98/94	62/61	
	1524	2400	8.6	466/466	85/83	61/60	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E		Wiper	
	Akstin	Provost	Gassan	Dove		Ladwig	

Operation, Maintenance, and Inspection Comments:

1051 SECURE ME3 FOR LO LEAK. SITKA CANCELED.

Day Chief Engineer

Night Chief Engineer

Propulsion (Engines)

M/V Chenega Sea Log (Page 1 of 2)

	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Engine Speed (rpm) - ECU	1748	0	1740	0	1750	0	1740	0	1750	0	1740	0	1750	0	1740	0
Running Hours (hrs)	759	0	831	812	2.9	0.0	2.9	0.0	2.9	0.0	2.9	0.0	2.9	0.0	2.9	0.0
Coolant Temperature (°C) - ECU	81.5	0.0	82.8	45.9	5.0	0.0	4.9	0.4	5.0	0.0	4.9	0.4	5.0	0.0	4.9	0.0
Coolant Temperature (°C) - EMU	80.8	0.0	82.1	31.9												
Lube Oil Temperature (°C)	73.6	0.0	75.1	32.8	6.9	0.0	7.1	0.0	6.9	0.0	7.1	0.0	6.9	0.0	7.1	0.0
					Lube Oil Pressure (bar) - ECU				Lube Oil Pressure (bar) - EMU				Lube Oil Pressure (bar) - ECU			
					Lube Oil Before Filt Pressure (bar)				Lube Oil Before Filt Pressure (bar)				Lube Oil Before Filt Pressure (bar)			
					Lube Oil Filter Diff Pressure (bar)				Lube Oil Filter Diff Pressure (bar)				Lube Oil Filter Diff Pressure (bar)			
Fuel Temperature (°C)	36.8	0.0	46.6	22.2	Fuel Oil Pressure (bar)				Fuel Oil Pressure (bar)				Fuel Oil Pressure (bar)			
					Fuel Oil Before Filt Pressure (bar)				Fuel Oil Before Filt Pressure (bar)				Fuel Oil Before Filt Pressure (bar)			
					Fuel Oil Filter Diff Pressure (bar)				Fuel Oil Filter Diff Pressure (bar)				Fuel Oil Filter Diff Pressure (bar)			
					Crank Case Pressure (mbar)				Crank Case Pressure (mbar)				Crank Case Pressure (mbar)			
Intake Air Temperature (°C)	24.3	0.0	23.4	35.1	3.4	0.0	3.3	1.0	3.4	0.0	3.3	1.0	3.4	0.0	3.3	1.0
Charge Air Temperature (°C)	54.7	0.0	54.6	24.7	8.1	0.0	8.3	8.2	8.1	0.0	8.3	8.2	8.1	0.0	8.3	8.2
Charge Air Seq Ctrl Vlv Temp (°C)	106.1	0.0	103.2	43.7	Charge Air Pressure (bar)				Charge Air Pressure (bar)				Charge Air Pressure (bar)			
					Start Air Pressure (bar)				Start Air Pressure (bar)				Start Air Pressure (bar)			
Fuel Consumption (ECU Est.) (l/h)	646	0	643	0												
Load (% of DBR)	78.8	0.0	77.8	0.0												
Water Jet Shaft RPM	619	88	615	1												

Propulsion (WaterJets)

	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Reversing Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Steering Hydraulic Oil Pressure	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Power Management

	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG4	SSDG2	SSDG1	SSDG3
Voltage (V)	0.0	477.5	475.9	0.0	0.0	0.0	0.1	3.2	3.5	0.0
Current (A)	0.0	95.9	97.1	0.0	0.0	0.0	62.0	77.0	72.9	59.3
Power (kW)	0.0	84.9	84.3	0.0	0.0	0.0	53.7	285.9	282.1	40.9
Power Factor	1.00	-0.81	-0.80	1.00			39.5	53.7	49.8	36.0
Frequency (Hz)	0.0	60.0	59.9	0.0			39.8	54.4	50.3	35.3
Starting Battery Voltage (V)	26.4	28.5	26.8	26.5			37.5	54.7	45.9	33.6
Engine Hours	14980	15366	15807	15711						

Miscellaneous

	PORT	STBD	PORT	STBD
Fuel Oil Tank	gal 3311	% 47.9	gal 4131	% 59.8
Lube Oil Tank	gal 80	% 43.3	gal 73	% 39.7
			gal 754	% 75.4
			gal 710	% 19.7
			gal 754	% 75.4
			gal 710	% 19.7

Comments

Lever: 8.5

S.O.G.: 2114

S.T.W.: 19.1

Wind Spd: 10

Wind Dir: 90

Seas: 3.0'

M.D.: 7'04"

Route:

En route SNU

Date/Time: 08/23/15 14:01:25

Signature:

Lubefender

IMACS

Make Master

Make Slave

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Harbor Log

HMN/ADIS

Active Alarms

Historic Alarms

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Propulsion (Engines)

M/V Chenega Sea Log (Page 2 of 2)

Exhaust Temperatures	ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Piston Cooling Splash Oil Temperatures	ME4	ME2	ME1	ME3
Cylinder A1 (°C)	499	0	515	49	Bearing 1 (°C)	97.3	0.0	98.8	52.5	1 (°C)	88.4	0.0	90.2	ME3
Cylinder A2 (°C)	506	0	506	49	Bearing 2 (°C)	103.6	0.0	107.5	58.6	2 (°C)	88.7	0.0	90.6	39.8
Cylinder A3 (°C)	504	0	512	49	Bearing 3 (°C)	104.4	0.0	109.3	62.0	3 (°C)	89.3	0.0	91.3	40.2
Cylinder A4 (°C)	509	0	515	48	Bearing 4 (°C)	105.9	0.0	108.3	61.7	4 (°C)	89.0	0.0	91.4	40.6
Cylinder A5 (°C)	496	0	512	48	Bearing 5 (°C)	101.7	0.0	105.0	60.7	5 (°C)	87.3	0.0	89.9	39.0
Cylinder A6 (°C)	520	0	524	47	Bearing 6 (°C)	102.5	0.0	105.9	60.4	6 (°C)	87.2	0.0	89.6	37.9
Cylinder A7 (°C)	499	0	516	48	Bearing 7 (°C)	100.6	0.0	105.5	60.7	7 (°C)	88.7	0.0	90.8	39.4
Cylinder A8 (°C)	522	0	535	49	Bearing 8 (°C)	102.8	0.0	107.4	61.0	8 (°C)	87.8	0.0	89.5	40.3
Cylinder A9 (°C)	518	0	513	48	Bearing 9 (°C)	100.6	0.0	103.2	60.8	9 (°C)	87.6	0.0	89.5	41.7
Cylinder A10 (°C)	505	0	516	48	Bearing 10 (°C)	101.4	0.0	105.9	59.0	10 (°C)	88.4	0.0	89.0	41.8
Cylinder B1 (°C)	515	0	524	47	Bearing 11 (°C)	91.2	0.0	94.8	52.2					41.3
Cylinder B2 (°C)	518	0	513	47										
Cylinder B3 (°C)	518	0	530	46										
Cylinder B4 (°C)	513	0	522	47										
Cylinder B5 (°C)	518	0	523	46										
Cylinder B6 (°C)	519	0	526	46										
Cylinder B7 (°C)	503	0	504	47										
Cylinder B8 (°C)	535	0	536	46										
Cylinder B9 (°C)	509	0	523	45										
Cylinder B10 (°C)	498	0	493	44										
Mean Exhaust Temp (°C)	511	0	518	47	Mean Main Bearing Temp (°C)	101.1	0.0	104.8	59.2	Mean Bearing Splash Oil Temp (°C)	88.0	0.0	90.2	40.2

Make Master

Make Slave

Sea Log 1

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Harbor Log

HMOM/ADIS

Active Alarms

Historic Alarms

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Comments

Date/Time: 08/23/15 14:02:08

Signature:

M/V Chenega Engineering Log

Saturday, 22 August 2015

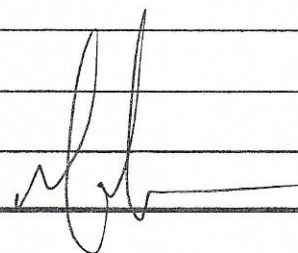
Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	4885	6149	11034	737	1841	104	93
Received (Transferred)							
Onboard @ 0600 (Stby)							
Onboard @ 1800 (FWE)							
Onboard @ 2400	4885	6149	11034	413	2065	78	93
Consumed (Produced)			0	340	224	26	6
Marine Diesel #1 / 2 from Tank Truck	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 3 4		
Departure Port	ABY	SIT					
Arrival Port	SIT	ABY					
OP3.2 Dep / OP1.2 Arr	I	I	I	I	FO Boost Pump 1 2 3 4		
Start (Clutch In)					Parker FO Filter Press ("Hg)		
Stop (Clutch Out)					4-	12-	1- 13-
Run Hours					NFV Supply Diff (Bar mBar)		
Run Miles					P-		S-
Car Deck Fans ON					WJ Hyd Filter Cart 1 2 3 4		
Car Deck Fans OFF					Shore Sewage @ 2400 6653		
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0000			464/464	98/94	62/61	
		2400		466/466	85/83	61/60	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Akstin	Provost	Gassan	Dove	Ladwig		

Operation, Maintenance, and Inspection Comments:

SAILING CANCELED DUE TO WEATHER.

Day Chief Engineer

Night Chief Engineer



Bilge Equipment

Date/Time: 08/22/15 07:10:55

PORT Bow Thruster Bilge Pump
Compartment 2 Bilge Pump
Compartment 4 Bilge Pump
Compartment 6 Bilge Pump
Double Bottom 6 Bilge Pump
Double Bottom 8 Bilge Pump
PORT Engine Room Bilge Pump
PORT Water Jet Space Bilge Pump

0
0
0
0
0
0
0
0

STBD Bow Thruster Bilge Pump
Compartment 1 Bilge Pump
Compartment 3 Bilge Pump
Compartment 5 Bilge Pump
Double Bottom 5 Bilge Pump
Double Bottom 7 Bilge Pump
STBD Engine Room Bilge Pump
STBD Water Jet Space Bilge Pump

0
0
0
0
0
0
0
0

WaterJet Equipment

Water Jet WJ2 Lube Oil Pump
Water Jet WJ4 Lube Oil Pump
Water Jet WJ2 Hydraulic Power Pack
Water Jet WJ4 Hydraulic Power Pack

3123
3123
174
307

Water Jet WJ3 Lube Oil Pump
Water Jet WJ1 Lube Oil Pump
Water Jet WJ3 Hydraulic Power Pack
Water Jet WJ1 Hydraulic Power Pack

3107
3111
254
242

Diesel Generators

SSDG 2
SSDG 4

15357
14880

SSDG 1
SSDG 3

15798
15711

Ventilation Fans

PORT Engine Room Supply Fan 2 High
PORT Engine Room Supply Fan 2 Low
PORT Engine Room Supply Fan 4 High
PORT Engine Room Supply Fan 4 Low
Vehicle Deck PORT FWD Exhaust Fan 2
Vehicle Deck PORT AFT Exhaust Fan 4

253
921
85
822
88
50

STBD Engine Room Supply Fan 3 High
STBD Engine Room Supply Fan 3 Low
STBD Engine Room Supply Fan 1 High
STBD Engine Room Supply Fan 1 Low
Vehicle Deck STBD FWD Exhaust Fan 1
Vehicle Deck STBD AFT Exhaust Fan 3

108
720
251
1001
84
52

Fuel Services

PORT Fuel Oil Booster Pump 2
PORT Fuel Oil Booster Pump 4

1097
841

STBD Fuel Oil Booster Pump 1
STBD Fuel Oil Booster Pump 3

1067
884

Services

PORT Air Compressor
PORT Sprinkler Pump
PORT Fire Pump
Fresh Water Pump 1
Fresh Water Pump 2
Interceptor/Stern Door Hydraulic Power Pack 1
Interceptor/Stern Door Hydraulic Power Pack 2

3515
0
2
3824
58
49
0

STBD Air Compressor
STBD Deluge Pump
STBD Fire Pump
Sewage Transfer Pump
HVAC Chiller Water Pump 1
HVAC Chiller Water Pump 2
HVAC Sea Water Pump 1

2127
1
1
15
2449
816
793

Propulsion

Main Engine 2
Main Engine 4

0
751

Main Engine 1
Main Engine 3

823
807

Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

MSI/ADIS

4 Active Alarms

4 Historic Alarms

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MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.
LO Replenishing Tk Level	5/8+	3/4	1/2+	5/8	Log level before fill; 3/4 max 1/4 min
LO Replenishing Tk Level	—	—	—	—	Log level after fill; 3/4 max 1/4 min
Red Gear Oil Level	Full	Full	Full	Full	Keep level at dipstick top notch.
Coolant Level	7.0	0.0	9.5	8.0	Log level (0 - 15 cm) 10 cm normal
Coolant Pre-htr Power/Elements	0/1	OFF	0/1	0/1	On, Off / Position 0, 1, 2. Valves Open
Air Compressor	1/2	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	0/Ly	COOLANT 0/Ly			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	6.5	7.0	7.3	7.0	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.7	7.3	8.3	8.1	Log level 7.0 - 9.0 cm normal
Coalescer Filter	W-NO	H-NO	H-NO	H-NO	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	Dry	Dry			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	Full	Full	Full	Full	Check for FO, LO, or coolant leaks
Coolant Level	Add	Full	Full	Full	Approx 1" below cap for expansion
FUEL:	#1	#2	#3	#4	
FO Service Pumps	OFF	OFF	OFF	OFF	Check Pump & NFV for leaks
ME Parker Pre-Filters	NONE	—	NONE	NONE	Drain Water, Log Amount, Reset Red Needle
NFV Sludge Tank	Stbd	NONE	Port	NONE	Check drain, Log discharge amount
Fuel Tank Sounding	DB3	5'-7"	DB4	4'-9"	Before & after fueling NO H2O
Compartment Decks: 1,2,3,4,5,6	Dry	Dry	Dry	Dry	Dry Dry Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port			
Seal Tank Level	8.0	9.0			Log level (7 cm), check shaft seal
Thruster Comp 1 & 2 Bilge	Dry	Dry			Dry - Chk Spr/Del Piping Drain in BT Rm #1
PUMPS:					
Fresh Water & Chillwater Pumps	FW1 OK	FW2 OK	CW1 OK	CW2 OK	Check pumps
Deluge, Sprinkler, HVAC Pumps		Del OK	Spr OK	HVAC OK	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 9cm	Temp 94°	Aft 9cm	Temp 97°	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7cm	Temp 77°			Log level (7 cm normal) Check for leaks
SEA STRAINERS:	#1	#2	#3	#4	
Main Engine					Monthly: clean, note % of zincs
WJ Shaft Seal & SSDG's	ALL CLEAR				Daily: check, clean as needed
Fire Pump					Sat; test run overboard
Deluge & Sprinkler Pumps	Del	Spr			Sat; test run ovbd. Dry bilge
SHORE TANK SOUNDINGS:	Used LO 370		Bilgewater 325		Sewage 1300 Gallons
DB SOUNDINGS (Sat Night):	DB1	DB2	DB5	DB6	DB7 DB8 All Dry
Comments: Record amounts of Lube Oil, Hyd Oil, & Coolant added to machinery: Lube Oil: ME1 <u> </u> ME2 <u> </u> ME3 <u> </u> ME4 <u> </u> Bi-Weekly Urinal Rx (Blue Seal): Fwd <u> </u> Aft <u> </u> - LAST NIGHT Before Guy came to pump out SHORE SEWAGE TANK it was 8900gal. - ME#2 oil change and replenishing TANK. • WASTE OIL Buffalo NOW at 475gal - Added 55gals LO to EACH HEAD TANK. - Added 1/4g coolant to AE#1 from Repair Dove last night.					
Name: LADWIG	First Engr Initial:	Day: Sunday	Date: 8-23-2015		