

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)	546	538	559	546	Bearing 1 (°C)	98.5	99.9	101.0	101.0	1 (°C)	89.5	89.5	90.9	90.9
Cylinder A2 (°C)	548	537	540	538	Bearing 2 (°C)	106.5	105.9	110.1	107.0	2 (°C)	89.4	90.5	91.3	90.0
Cylinder A3 (°C)	544	550	543	535	Bearing 3 (°C)	106.6	108.2	112.4	108.2	3 (°C)	90.4	90.8	92.2	90.2
Cylinder A4 (°C)	547	551	544	531	Bearing 4 (°C)	108.2	107.6	112.0	109.7	4 (°C)	89.5	89.3	91.7	89.1
Cylinder A5 (°C)	535	537	537	549	Bearing 5 (°C)	103.6	104.7	107.0	103.6	5 (°C)	88.6	89.6	91.0	88.5
Cylinder A6 (°C)	551	542	552	530	Bearing 6 (°C)	103.7	105.9	107.7	104.4	6 (°C)	88.9	89.8	90.7	88.4
Cylinder A7 (°C)	538	541	552	546	Bearing 7 (°C)	102.1	104.4	107.4	103.6	7 (°C)	89.8	90.2	91.8	89.7
Cylinder A8 (°C)	559	560	566	557	Bearing 8 (°C)	104.4	105.5	109.7	105.9	8 (°C)	89.9	89.8	91.3	89.2
Cylinder A9 (°C)	561	539	545	534	Bearing 9 (°C)	102.1	105.3	105.1	104.0	9 (°C)	88.4	88.8	90.5	88.4
Cylinder A10 (°C)	544	525	547	545	Bearing 10 (°C)	103.2	103.2	108.2	103.6	10 (°C)	87.3	88.2	89.8	87.3
Cylinder B1 (°C)	550	539	555	538	Bearing 11 (°C)	91.9	91.9	96.2	93.4					
Cylinder B2 (°C)	550	537	539	544										
Cylinder B3 (°C)	548	538	550	539										
Cylinder B4 (°C)	548	534	547	543										
Cylinder B5 (°C)	540	536	541	542										
Cylinder B6 (°C)	553	542	559	553										
Cylinder B7 (°C)	543	535	541	545										
Cylinder B8 (°C)	566	557	559	553										
Cylinder B9 (°C)	539	533	556	537										
Cylinder B10 (°C)	537	531	524	536										
Mean Exhaust Temp (°C)	547	540	548	542	Mean Main Bearing Temp (°C)	102.8	103.8	106.9	104.0	Mean Bearing Splash Oil Temp (°C)	89.2	89.6	91.1	88.9

- Make Master
- Make Slave
- Sea Log 1
- Sea Log 2
- Harbor Log
- HMON/ADIS
- 4 Active Alarms
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- Print

Comments

Signature: 



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) -EDU-	1859	1868	1848	1859	1859	1860	1849	1858	1859	1860	1849	1858	1859	1860	1849	1858
Running Hours (hrs)	789	801	862	842	3.3	3.1	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.1	3.3	3.3
Coolant Temperature (°C) -EDU-	81.5	80.7	82.7	80.5	5.5	5.3	5.3	5.7	5.5	5.3	5.3	5.7	5.5	5.3	5.3	5.7
Coolant Temperature (°C) -EMU-	80.7	80.3	82.1	80.0	7.1	7.1	7.3	7.0	7.1	7.1	7.3	7.0	7.1	7.1	7.3	7.0
Lube Oil Temperature (°C)	73.6	73.9	74.8	73.4	7.2	7.2	7.4	7.0	7.2	7.2	7.4	7.0	7.2	7.2	7.4	7.0
Fuel Temperature (°C)	46.7	50.0	49.9	44.2	7.5	7.4	7.7	7.3	7.5	7.4	7.7	7.3	7.5	7.4	7.7	7.3
Intake Air Temperature (°C)	29.3	29.9	26.9	28.2	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3
Charge Air Temperature (°C)	53.5	53.7	53.2	53.5	7.0	7.2	7.1	7.3	7.0	7.2	7.1	7.3	7.0	7.2	7.1	7.3
Charge Air Seq Ctrl Vlv Temp (°C)	161.8	160.4	158.8	162.1	7.8	7.8	7.5	7.6	7.8	7.8	7.5	7.6	7.8	7.8	7.5	7.6
Fuel Consumption (ECU Est.) (l/hr)	762	740	763	769	0.8	0.6	0.4	0.3	0.8	0.6	0.4	0.3	0.8	0.6	0.4	0.3
Load (% of DBR)	81.8	80.4	82.6	82.8	-7.46	-7.35	-5.85	-6.23	-7.46	-7.35	-5.85	-6.23	-7.46	-7.35	-5.85	-6.23
Water Jet Shaft RPM	657	657	654	657	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Mean Exhaust Temp (°C)	619.6	611.1	621.4	615.0	8.1	8.1	8.4	8.3	8.1	8.1	8.4	8.3	8.1	8.1	8.4	8.3
Mean Exhaust Temp (°C)	550	542	553	548	103.1	103.9	107.2	104.3	103.1	103.9	107.2	104.3	103.1	103.9	107.2	104.3
Mean Main Bearing Temp (°C)	89.4	89.7	91.3	89.2	23.8	24.1	24.7	23.5	23.8	24.1	24.7	23.5	23.8	24.1	24.7	23.5
Mean Bearing Splash Oil Temp (°C)	66.8	62.6	59.8	59.0	40.6	40.6	38.2	38.2	40.6	40.6	38.2	38.2	40.6	40.6	38.2	38.2
Red Gear Control Oil Pressure (bar)																
Red Gear Oil Temperature (°C)																
Hydraulic Oil Temperature																
Hydraulic Oil Level																

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	SSDG4	SSDG2	SSDG1	SSDG3
Voltage (V)	0.0	477.4	477.2	0.0	0.0	0.0	3.3	0.0
Current (A)	0.0	90.0	90.0	0.0	0.0	0.0	72.7	61.0
Power (kW)	0.0	57.9	57.7	0.0	0.0	0.0	276.7	40.0
Power Factor	1.00	-0.77	-0.77	1.00	0.0	0.0	54.8	38.4
Frequency (Hz)	0.0	60.0	60.0	0.0	0.0	0.0	58.0	37.7
Starting Battery Voltage (V)	26.2	28.2	26.4	26.3	PORT	STBD	58.0	37.7
Engine Hours	14882	15390	15831	15724	Tie Breaker Status: Closed	Unreq Close	54.0	36.2

Miscellaneous

	PORT	STBD
Fuel Oil Tank	gal 3257	gal 3308
Lube Oil Tank	gal 105	gal 125
Potable Water	gal 618	gal 61.8
Sewage	gal 1044	gal 29.0
Fuel Oil Service Tank Level	OK	OK
SW Flushing Pressure (bar)	Forward 2.2	Aft 2.3

Comments: Lever: 9,1 S.O.G.: 35.8 S.T.W.: 36.6 Wind Spd: 29 kts Wind Dir: 006 Seas: calm M.D.: 9'2"

Route: 511 - ADY Date/Time: 08/26/15 14:56:37 Signature: 



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Propulsion (Engines)

Exhaust Temperatures	ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Platon Cooling Splash Oil Temperatures	ME4	ME2	ME1	ME3
Cylinder A1 (°C)	548	545	552	548	Bearing 1 (°C)	99.8	100.2	101.3	101.2	1 (°C)	89.5	89.8	90.9	89.2
Cylinder A2 (°C)	551	538	545	543	Bearing 2 (°C)	105.8	106.1	110.4	107.4	2 (°C)	89.7	90.7	91.7	90.0
Cylinder A3 (°C)	547	551	548	537	Bearing 3 (°C)	107.0	108.2	112.7	108.5	3 (°C)	90.3	90.9	92.2	90.3
Cylinder A4 (°C)	551	556	548	535	Bearing 4 (°C)	108.5	107.7	112.4	110.1	4 (°C)	89.8	89.6	91.7	89.2
Cylinder A5 (°C)	533	544	541	553	Bearing 5 (°C)	103.6	104.7	107.2	104.0	5 (°C)	89.8	89.7	91.1	89.8
Cylinder A6 (°C)	555	544	556	534	Bearing 6 (°C)	104.0	105.9	107.8	104.5	6 (°C)	89.0	89.6	91.0	88.6
Cylinder A7 (°C)	541	542	559	549	Bearing 7 (°C)	102.5	104.4	107.8	104.0	7 (°C)	89.8	90.4	91.8	89.7
Cylinder A8 (°C)	551	563	572	562	Bearing 8 (°C)	104.7	105.5	110.1	106.2	8 (°C)	90.1	89.8	91.3	89.5
Cylinder A9 (°C)	560	539	548	538	Bearing 9 (°C)	102.3	105.4	105.1	104.1	9 (°C)	88.7	89.1	90.9	88.6
Cylinder A10 (°C)	544	527	553	548	Bearing 10 (°C)	103.4	103.2	108.5	103.6	10 (°C)	87.5	88.6	90.1	87.3
Cylinder B1 (°C)	553	540	561	542	Bearing 11 (°C)	92.3	91.9	96.2	93.4					
Cylinder B2 (°C)	553	540	543	548										
Cylinder B3 (°C)	550	540	556	541										
Cylinder B4 (°C)	550	536	551	549										
Cylinder B5 (°C)	540	536	544	545										
Cylinder B6 (°C)	555	544	554	557										
Cylinder B7 (°C)	546	536	544	547										
Cylinder B8 (°C)	557	558	554	556										
Cylinder B9 (°C)	541	537	561	540										
Cylinder B10 (°C)	536	533	528	540										
Mean Exhaust Temp (°C)	549	542	552	546	Mean Main Bearing Temp (°C)	103.1	103.9	107.2	104.2	Mean Bearing Splash Oil Temp (°C)	89.3	89.8	91.3	89.1

Comments

Date/Time: 08/26/15 14:57:32

Signature: 



Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

HMON/ADIS

Active Alarms

Historic Alarms

Disk Log

Runtimes

Print

MAIN ENGINE:	#1	#2	#3	#4	Description		
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.		
LO Replenishing Tk Level	3/8++	1/2+	3/8++	3/8+	Log level before fill; 3/4 max 1/4 min		
LO Replenishing Tk Level	5/8+	5/8+	5/8+	5/8+	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 <i>Boat Bunking</i>	10.0+	10.0+	10.0+	10.0+	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	1/3 2/3	2/3			Log LO level, carefully blowdown receiver		
Engine Room Bilge	3.oily	3.oily			Dry Wipe machinery leaks		
WATER JET:	#1	#2	#3	#4			
Hydraulic Oil Level	7.7	7.4	7.5	6.9/7.5	Log level 7.0 - 9.0 cm normal		
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote		
Lube Oil Level	8.4	7.2/8.7	8.7	7.8/8.8	Log level 7.0 - 9.0 cm normal		
Coalescer Filter	W-NO	H-NO	W-NO	W-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	3/4	Full	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	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	—	Port	—	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	Clean/dry
BOW THRUSTER:	#1 Stbd	#2 Port					
Seal Tank Level	—	—			Log level (7 cm), check shaft seal		
Thruster Comp 1 & 2 Bilge	—	—			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 —	Spr OK	HVAC OK	Check ovhd drain Check pumps Dry bilge		
Fwd & Aft Door/Interceptor HPU	Fwd —	Temp —	Aft 12cm	Temp 10	Tank Level (3/4 normal) Record Temps		
Anchor Windlass Tank Level	—	Temp —	closed	—	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	AE	AE	AE	AE	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		Bilgewater		Sewage	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 7 1/2 g ME2 4 1/2 g ME3 8 g ME4 8 1/2 g Bi-Weekly Urinal Rx (Blue Seal): Fwd — Aft — • Added 6 oz ISO 100 to STB AIR COMP. • Moved port filter cart to #4 • Added 3/4 g Clarity to #4 WJ HYDRO PAK. • Added 5 g waste oil from Filter Drains & other waste oils to BUFFALO • Added 1 g meropa 68 to WJLOP #2 • Added 3/4 g meropa 68 to WJLOP #4 • Emptied all Drip & Sample Buckets - Comp 2, 3, 4, 5, 6 and Both WJ RMS.							
Name: LADWIG	First Eng Initial: <i>LD</i>	Day: Thursday	Date: 8-27-2015				

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+	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	9.5	10.1	10.2	10.5	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	2/3	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	S.oily	S.oily			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	7.8	7.5	7.4	7.7	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.5	9.0	8.3	8.9	Log level 7.0 - 9.0 cm normal
Coalescer Filter	W-No	H-No	W-No	W-No	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	VS. DAMP	DRY			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	3/4	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	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 5'-4"		DB4 5'-2"		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	8.0	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:					Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1 OK	FW2 OK	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 9cm	Temp 93°	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	115	Bilgewater	360	Sewage 4400 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> • RG#2 - cooler leaks oil from the FRONT END CAP PLACED & ziptied Diaper over Leak. • Coalescer filter Heater seems to be the only one that's ever really HOT. • There are 2 leaks in the overhead in the STB WJRM 1 from tie-up station 1 from piping-wires on carddeck By Door to Tie-up station. • Replace all ME Blowdown Daipers in Ice Buckets - NO COOLANT just oil,					
Name: LADWIG	First Engr Initial: MGR	Day: Friday	Date: 8-28-2015		

Between 2145 & 2215:
 ME#1-44°-9.5cm ME#2-46°-10.1cm ME#3-50°-10.2cm ME#4-48°-10.5cm

M/V Chenega Engineering Log

Friday, 28 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5758	5928	11686	861	1366	87	125
Received (Transferred)			60950		1100		
Onboard @ 0600 (Stby)	5710	5855	11565	824	290	87	104
Onboard @ 1800 (FWE)	2675	2823	5498	604	1379	88	104
Onboard @ 2400	5815	5869	11684	587	1470	87	104
Consumed (Produced)			6002			1	0
Marine Diesel #1 / 2 from Tank Truck	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
	6000	58	34.6	160	1852	1919	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator ①② 3 4		
Departure Port	JNU	SIT					
Arrival Port	SIT	JNU			FO Boost Pump ①② 3 4		
OP3.2 Dep / OP1.2 Arr	✓ ✓	✓ ✓			Parker FO Filter Press ("Hg)		
Start (Clutch In)	0636	1158			4-0 12-2 1-0 13-0		
Stop (Clutch Out)	1118	1158			NFV Supply Diff (Bar mBar)		
Run Hours	4.7	5			P- 1 10.14 S- 0.8 10.13		
Run Miles	136	136			WJ Hyd Filter Cart 1 2 3 4		
Car Deck Fans ON	0540	1122			Shore Sewage @ 2400 4400		
Car Deck Fans OFF	0623	1155					
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0001	0500	5	469	96	72	
	1702	2400		462/462	119/118	85/84	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Wilson	Early	Walsh	Gassan	Ladwig		

Operation, Maintenance, and Inspection Comments:

Revalidation Engineers Riding
 Robbie Provost
 Bert Stammerjohan
 Dennis Early (working Day assignment)

Day Chief Engineer *Wayne Wilson*

Night Chief Engineer *Dennis Walsh*

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Propulsion (Engines)

	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
Engine Speed (rpm) - ECU	1865	1866	1866	1866	1868	1864	1865	1865	1868	1864	1865	1865	1868	1864	1865	1865
Running Hours (hrs)	798	810	871	850	3.4	3.2	3.4	3.3	3.4	3.2	3.4	3.3	3.4	3.2	3.4	3.3
Coolant Temperature (°C) - ECU	81.5	81.1	83.0	80.8	5.6	5.8	5.8	5.8	5.6	5.8	5.8	5.8	5.6	5.8	5.8	5.8
Coolant Temperature (°C) - EMU	80.8	80.7	82.1	80.3	7.1	7.1	7.3	6.9	7.1	7.1	7.3	6.9	7.1	7.1	7.3	6.9
Lube Oil Temperature (°C)	73.9	74.2	75.1	73.4	7.3	7.2	7.4	7.1	7.3	7.2	7.4	7.1	7.3	7.2	7.4	7.1
Fuel Temperature (°C)	40.8	47.7	48.5	40.7	7.5	7.5	7.7	7.3	7.5	7.5	7.7	7.3	7.5	7.5	7.7	7.3
Intake Air Temperature (°C)	27.1	25.9	24.7	23.8	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3
Charge Air Temperature (°C)	53.5	54.0	53.6	53.3	7.6	7.8	8.9	7.1	7.6	7.8	8.9	7.1	7.6	7.8	8.9	7.1
Charge Air Seq Ctrl Vlv Temp (°C)	163.5	163.7	163.5	165.1	7.8	7.8	7.5	7.5	7.8	7.8	7.5	7.5	7.8	7.8	7.5	7.5
Fuel Consumption (ECU Est.) (l/hr)	774	749	773	780	0.1	0.0	0.5	0.4	0.1	0.0	0.5	0.4	0.1	0.0	0.5	0.4
Load (% of DBR)	83.9	81.2	83.8	83.8	-7.60	-6.51	-6.34	-5.99	3.4	3.3	3.3	3.4	3.4	3.3	3.3	3.4
Water Jet Shaft RPM	660	660	657	660	8.2	8.3	8.3	8.3	8.2	8.3	8.3	8.3	8.2	8.3	8.3	8.3

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)	0.0	477.4	476.9	0.0	0.0	0.0	0.0	3.0	3.3	0.0
Current (A)	0.0	100.2	99.9	0.0	0.0	0.0	60.3	76.8	73.5	60.2
Power (kW)	0.0	70.5	69.7	0.0	0.0	0.0	38.9	296.2	290.8	40.7
Power Factor	1.00	-0.84	-0.84	1.00			37.7	56.3	56.9	39.2
Frequency (Hz)	0.0	59.9	60.0	0.0			38.1	56.0	57.2	38.4
Starting Battery Voltage (V)	26.3	28.3	26.5	26.4	PORT	STBD	35.7	56.5	53.0	36.8
Engine Hours	14884	15401	15842	15726	Tie Breaker Status	Unreq Close				

Miscellaneous

	PORT	STBD
Fuel Oil Tank	gal 3745	gal 3783
Lube Oil Tank	gal 87	gal 104
	% 54.2	% 54.7
	% 47.0	% 56.0
	1183	33.1
	619	61.9
	1183	33.1
	Forward	Aft
	2.2	2.3

Comments Level: 9.1

Route: 517 - ABAY

S.O.G.: 34.6

S.T.W.: 34.1

Wind Spd: 38kts

Wind Dir: 018

Seas: calm

M.D.: 7'2"

Date/Time: 08/28/15 13:53:49

Signature: 



- Make Master
- Make Slave
- Sea Log 1
- Sea Log 2
- Harbor Log
- HMON/ADIS
- Active Alarms
- Historic Alarms
- Disk Log
- Runtimes
- Print

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)	545	543	565	546	Bearing 1 (°C)	100.2	100.6	101.5	101.3	1 (°C)	89.6	89.8	91.2	89.3
Cylinder A2 (°C)	549	536	547	542	Bearing 2 (°C)	106.2	106.6	110.8	107.8	2 (°C)	89.7	90.7	91.7	90.1
Cylinder A3 (°C)	545	548	548	538	Bearing 3 (°C)	107.4	108.5	113.2	108.7	3 (°C)	90.7	91.2	92.6	90.5
Cylinder A4 (°C)	550	553	552	537	Bearing 4 (°C)	108.3	108.2	112.8	110.4	4 (°C)	88.8	89.6	92.0	89.4
Cylinder A5 (°C)	532	539	542	550	Bearing 5 (°C)	104.1	105.1	107.4	104.0	5 (°C)	88.8	89.7	91.0	88.8
Cylinder A6 (°C)	550	542	558	535	Bearing 6 (°C)	104.4	106.3	108.2	104.7	6 (°C)	89.3	89.9	91.0	88.9
Cylinder A7 (°C)	539	536	559	549	Bearing 7 (°C)	102.8	104.7	108.1	104.3	7 (°C)	90.1	90.6	92.2	90.0
Cylinder A8 (°C)	558	560	573	560	Bearing 8 (°C)	105.1	105.9	110.4	106.6	8 (°C)	90.3	90.5	91.3	89.8
Cylinder A9 (°C)	558	538	549	538	Bearing 9 (°C)	102.5	105.8	105.5	104.4	9 (°C)	89.9	89.2	90.8	88.9
Cylinder A10 (°C)	540	526	557	548	Bearing 10 (°C)	103.9	103.6	108.9	104.0	10 (°C)	87.9	88.6	90.5	88.0
Cylinder B1 (°C)	548	540	563	538	Bearing 11 (°C)	92.6	92.3	95.6	93.7					
Cylinder B2 (°C)	552	541	542	547										
Cylinder B3 (°C)	547	539	557	543										
Cylinder B4 (°C)	548	535	552	548										
Cylinder B5 (°C)	540	535	544	543										
Cylinder B6 (°C)	551	544	566	557										
Cylinder B7 (°C)	544	534	547	546										
Cylinder B8 (°C)	565	559	566	554										
Cylinder B9 (°C)	541	535	563	540										
Cylinder B10 (°C)	533	529	529	539										
Mean Exhaust Temp (°C)	547	541	554	545	Mean Main Bearing Temp (°C)	103.5	104.3	107.6	104.5	Mean Bearing Splash Oil Temp (°C)	89.5	90.0	91.4	89.4

Comments

Date/Time: 08/28/15 13:54:39

Signature: *A. Ready*

- Make Master
- Make Slave
- Sea Log 1
- Sea Log 2
- Harbor Log
- HMON/ADIS
- 4 Active Alarms
- 4 Historic Alarms
- Disk Log
- Runtimes
- Print



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 @ 20:00 →	9.0	11.0	11.0	11.0	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	2/3	2/3			Log LO level, carefully blowdown receiver		
Engine Room Bilge	S.oily	S.oily			Dry Wipe machinery leaks		
WATER JET:	#1	#2	#3	#4			
Hydraulic Oil Level	7.8	7.4	7.4	7.6	Log level 7.0 - 9.0 cm normal		
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote		
Lube Oil Level	8.4	9.0	8.3	9.0	Log level 7.0 - 9.0 cm normal		
Coalescer Filter	W-NO	H-NO	W-NO	W-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	Add	7/8	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	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'-3"		DB4 5'-2"		Before & after fueling NH ₂ O		
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:					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 93°	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	115	Bilgewater	360	Sewage 6912 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 0 ME2 0 ME3 0 ME4 0 Bi-Weekly Urinal Rx (Blue Seal): Fwd ___ Aft ___ • Rechecked ME#1 coolant level @ 23:00 IT WAS 8.2 cm. • Added 1/2 gal LO to AE#1 • FYI: #3 Parker Reading was at 10 #1 @ 5 2 & 4 below 5							
Name: LADW14	First Engr Initial: MB	Day: SATURDAY	Date: 8-29-2015				

M/V Chenega Engineering Log

Saturday, 29 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5815	5869	11684	587	1470	87	104
Received (Transferred)					532		
Onboard @ 0600 (Stby)	5773	5830	11603	902	936	87	104
Onboard @ 1800 (FWE)	2644	2706	5350	726	1860	87	104
Onboard @ 2400	5773	5810	11583	678	1875	87	104
Consumed (Produced)			6101	91	535390		
Marine Diesel #1 / 2 from Tank Truck	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
	6000	58	34.1	160	1857	1921	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator ① ② 3 4		
Departure Port	JNU	SIT	ANG		FO Boost Pump ① ② 3 4		
Arrival Port	SIT	ANG	SIT		Parker FO Filter Press ("Hg)		
OP3.2 Dep / OP1.2 Arr	✓ 1 ✓	✓ 1 ✓	✓ 1	1	4- 0 12- 1 1- 3 13- 5		
Start (Clutch In)	0639	1200	1524		NFV Supply Diff (Bar mBar)		
Stop (Clutch Out)	1128	1447	1810		P- 1	S- 1	
Run Hours	5	2.7	2.5		WJ Hyd Filter Cart 1 2 3 4		
Run Miles	136	69	77		Shore Sewage @ 2400 6912		
Car Deck Fans ON	0545	1130	1450	1812			
Car Deck Fans OFF	0630	1158	1520	1827			
Shore Power	Time Start	Time Stop	Hours	Voltage (V avg)	Current (I avg)	Power (kW avg)	
	0001	0500	5	470	95	73	
	1813	2400	5.8	460/461	94/92	57/55	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Wilson	Early	Walsh	Gassan	Ladwig		

Operation, Maintenance, and Inspection Comments:

Day Chief Engineer Wayne Wilson Night Chief Engineer Douglas Walsh

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

Propulsion (Engines)

	ME4	ME2	ME1	ME3	Engine Speed (rpm) - E.M.U.	ME4	ME2	ME1	ME3	ETC Speed 1 (A1) (krpm)	ME4	ME2	ME1	ME3
Engine Speed (rpm) - ECU	1873	1872	1863	1871	Engine Speed (rpm) - E.M.U.	1874	1872	1864	1872	ETC Speed 2 (B1) (krpm)	51.4	51.0	51.3	51.4
Running Hours (hrs)	808	820	881	860	Raw Water Pressure (bar)	3.4	3.3	3.4	3.3	ETC Speed 3 (A2) (krpm)	51.5	51.2	51.3	52.0
Coolant Temperature (C) - ECU	81.5	81.1	83.1	80.6	Coolant Pressure (bar)	5.6	5.6	5.5	5.8	ETC Speed 4 (B2) (krpm)	52.0	51.5	51.7	51.8
Coolant Temperature (C) - E.M.U.	81.0	80.7	82.4	80.3	Lube Oil Pressure (bar) - ECU	7.1	7.1	7.3	6.9		51.6	51.3	51.6	51.7
Lube Oil Temperature (C)	73.9	74.2	75.1	73.4	Lube Oil Pressure (bar) - E.M.U.	7.2	7.2	7.4	7.0	Pie ETC 1 (A1) Exhaust Temp (C)	591.2	579.5	583.3	581.6
Fuel Temperature (C)	44.8	49.0	48.6	43.6	Lube Oil Before Filtr Pressure (bar)	7.5	7.5	7.7	7.3	Pie ETC 2 (B1) Exhaust Temp (C)	587.1	585.0	572.9	571.0
Intake Air Temperature (C)	25.9	24.6	26.0	27.0	Lube Oil Filter Diff Pressure (bar)	0.4	0.3	0.4	0.3	Pie ETC 3 (A2) Exhaust Temp (C)	644.3	634.7	642.9	640.8
Charge Air Temperature (C)	53.1	53.4	52.9	52.9	Fuel Oil Pressure (bar)	7.6	7.8	8.7	6.9	Pie ETC 4 (B2) Exhaust Temp (C)	618.9	609.8	621.5	615.1
Charge Air Seq Ctn Vlv Temp (C)	166.5	165.1	165.1	167.4	Fuel Oil Before Filtr Pressure (bar)	7.8	7.8	7.4	7.5	Mean Exhaust Temp (C)	548	541	553	546
Fuel Consumption (ECU Est.) (l/hr)	781	756	780	799	Fuel Oil Filter Diff Pressure (bar)	0.1	0.0	0.7	0.6	Mean Main Bearing Temp (C)	103.8	104.6	107.9	104.9
Load (% of DBR)	84.6	82.2	84.6	85.0	Crank Case Pressure (mbar)	-7.00	-6.13	-5.39	-6.41	Mean Bearing Splash Oil Temp (C)	89.9	90.2	91.7	89.5
Water Jet Shaft RPM	663	661	659	661	Charge Air Pressure (bar)	3.4	3.4	3.4	3.4	Red Gear Oil Temperature (C)	23.9	24.3	24.4	23.6
					Start Air Pressure (bar)	6.1	6.2	6.3	6.3	Red Gear Oil Temperature (C)	65.2	62.6	60.0	59.0

Propulsion (WaterJets)

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

Power Management

	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG4	SSDG2	SSDG1	SSDG3
Voltage (V)	0.0	479.5	478.2	0.0	0.0	0.0	0.0	3.2	3.3	0.0
Current (A)	0.0	71.3	71.8	0.0	0.0	0.0	57.9	76.3	72.5	60.2
Power (kW)	0.0	46.0	46.6	0.0	0.0	0.0	42.9	257.0	255.4	40.7
Power Factor	1.00	-0.78	-0.78	1.00			37.8	53.5	55.9	38.3
Frequency (Hz)	0.0	59.9	60.0	0.0			38.2	54.7	56.3	37.6
Starting Battery Voltage (V)	26.3	28.3	26.5	26.4	PORT	STBD	35.9	55.5	52.0	35.9
Engine Hours	14884	15413	15853	15726	Tie Breaker Status	Closed				

Miscellaneous

	PORT	STBD	PORT	STBD
Fuel Oil Tank	gal	%	gal	%
Lube Oil Tank	3837	55.5	3940	56.6
	86	46.5	104	56.3
			795	79.5
			1411	39.2
			Forward	2.0
			Aft	2.1

Comments Level: 9.1

S.O.G.: 34.7

S.T.W.: 33.1

Wind Spd: 48kts

Wind Dir: 003

Seas: Calm

M.D.: 7'3"

Route: 517-ANG

Date/Time: 08/29/15 13:41:48

Signature: *Alennisback*



Make Master

Make Slave

Sea Log 1

Sea Log 2

Harbor Log

HMON/ADIS

Active Alarms

Historic Alarms

Disk Log

Runtimes

Print

IMACS

M/W 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)	547	540	565	545	Bearing 1 (°C)	100.6	100.8	102.0	101.7	1 (°C)	89.8	89.8	89.8	89.8
Cylinder A2 (°C)	552	538	545	544	Bearing 2 (°C)	106.8	106.8	111.2	108.2	2 (°C)	90.1	90.8	91.7	90.4
Cylinder A3 (°C)	546	549	551	541	Bearing 3 (°C)	107.8	108.5	113.5	108.9	3 (°C)	90.8	91.2	92.9	90.6
Cylinder A4 (°C)	551	553	553	539	Bearing 4 (°C)	109.5	108.2	113.2	110.8	4 (°C)	90.2	89.6	91.8	89.5
Cylinder A5 (°C)	536	538	541	551	Bearing 5 (°C)	104.4	105.5	107.8	104.4	5 (°C)	89.1	89.6	91.4	89.9
Cylinder A6 (°C)	553	544	558	536	Bearing 6 (°C)	104.7	106.4	108.5	105.1	6 (°C)	89.6	90.0	91.4	89.1
Cylinder A7 (°C)	542	541	558	550	Bearing 7 (°C)	102.9	105.0	108.2	104.4	7 (°C)	90.5	90.5	92.5	90.0
Cylinder A8 (°C)	561	562	574	561	Bearing 8 (°C)	105.5	105.9	110.8	106.7	8 (°C)	90.6	90.5	91.7	89.9
Cylinder A9 (°C)	560	537	550	537	Bearing 9 (°C)	102.8	105.9	105.9	104.7	9 (°C)	89.0	89.2	91.2	88.8
Cylinder A10 (°C)	543	528	557	551	Bearing 10 (°C)	104.0	103.6	109.2	104.2	10 (°C)	87.8	89.6	90.5	87.6
Cylinder B1 (°C)	551	538	552	540	Bearing 11 (°C)	92.7	92.3	96.6	93.7					
Cylinder B2 (°C)	553	542	543	549										
Cylinder B3 (°C)	549	538	558	545										
Cylinder B4 (°C)	551	535	553	550										
Cylinder B5 (°C)	543	536	545	545										
Cylinder B6 (°C)	555	544	567	558										
Cylinder B7 (°C)	547	538	545	548										
Cylinder B8 (°C)	564	559	566	555										
Cylinder B9 (°C)	540	538	563	541										
Cylinder B10 (°C)	536	530	529	536										
Mean Exhaust Temp (°C)	549	541	554	546	Mean Main Bearing Temp (°C)	103.8	104.4	107.9	104.8	Mean Bearing Splash Oil Temp (°C)	89.8	90.0	91.7	89.4

Comments

Date/Time: 08/29/15 13:44:32

Signature: 

Make Master
 Make Slave
 Sea Log 1
 Sea Log 2
 Harbor Log
 HMON/ADIS
 Active Alarms
 Historic Alarms
 Disk Log
 Runtimes
 Print

IMACS

MAIN ENGINE:	#1	#2	#3	#4	Description
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.
LO Replenishing Tk Level	1/2+	1/2+	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 @ 20:00 →	8.0	10.2	10.3	10.5	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	2/3	2/3			Log LO level, carefully blowdown receiver
Engine Room Bilge	S.Oily	S.Oily			Dry Wipe machinery leaks
WATER JET:	#1	#2	#3	#4	
Hydraulic Oil Level	7.8	7.5	7.4	7.6	Log level 7.0 - 9.0 cm normal
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote
Lube Oil Level	8.4	9.0	8.3	8.9	Log level 7.0 - 9.0 cm normal
Coalescer Filter	W-NO	H-NO	W-NO	W-NO	Chk drain (Log H2O amount) Check temp
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage
Waterjet Compartment Bilge	S.DAMP	Dry			Dry
GENERATOR:	#1	#2	#3	#4	
LO Sump level	Add	7/8	Full	Full	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 <small>END OF DAY READING</small>	6-NONE	3-NONE	9-NONE	0-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'-7"	DB4	5'-5"	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	8.0	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:					Report leaks or vibration
Fresh Water & Chillwater Pumps	FW1 OK	FW2 OK	CW1OK	CW2OK	Check pumps
Deluge, Sprinkler, HVAC Pumps		Del OK	SprOK	HVACOK	Check ovhd drain Check pumps Dry bilge
Fwd & Aft Door/Interceptor HPU	Fwd 9cm	Temp 92°	Aft 9cm	Temp 98°	Tank Level (3/4 normal) Record Temps
Anchor Windlass Tank Level	7cm	Temp 75°			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 OK leak →				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	115	Bilgewater	360	Sewage 6912 Gallons
DB SOUNDINGS (Sat Night):	DB1 Dry	DB2 Dry	DB5 Dry	DB6 Dry	DB7 Dry DB8 Dry <u>All Dry</u>
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> • had To Reset #4 Coalescer heater • #2 WJLO coalescer filter top very Hot. • Added 1/2g LO to AE#1 • Topped up COOLANT AE#3 12oz.					
Name: <u>LADWIG</u>	First Engr Initial: <u>MG</u>	Day: <u>Sunday</u>	Date: <u>8-30-2015</u>		

M/V Chenega Engineering Log

Sunday, 30 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	5773	5810	11583	678	1875	88	126
Received (Transferred)			6000		-1550		
Onboard @ 0600 (Stby)	5743	5783	11526	906	3600	88	104
Onboard @ 1800 (FWE)	3107	3126	6233	770	1601	87	103
Onboard @ 2400	6107	6152	12259	766	1052	87	104
Consumed (Produced)			5324	88	692	0	0
Marine Diesel #1 / 2 from Tank Truck	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
	6000	60	34.1	155	1902	1929	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 3 4		
Departure Port	JNU	SIT					
Arrival Port	SIT	JNU			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	1228			4-0 12-0 1-0 13-4		
Stop (Clutch Out)	1145	1714			NFV Supply Diff (Bar mBar)		
Run Hours	5.25	4.8			P- 1 10.15 S: 81 1013		
Run Miles	136	136			WJ Hyd Filter Cart 1 2 3 4		
Car Deck Fans ON	0535	1147	1715		Shore Sewage @ 2400 6912		
Car Deck Fans OFF	0556	1214	1720				
Shore Power	Time Start	Time Stop	Hours	Voltage (V avg)	Current (I avg)	Power (kW avg)	
	0001	0500	5	467	87	67	
	1720	2400		470/470	102/60	41/38	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Wilson	Early	Walsh	Gassan	Ladwig		

Operation, Maintenance, and Inspection Comments:

Day Chief Engineer

Wayne Wilson

Night Chief Engineer

James Walsh

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

Propulsion (Engines)	Power Mgt	Bilge	Tanks	HVAC	Doors	Fire	Collectors
ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
1867	1866	1866	1866	1867	1867	1868	1868

M/V Chenega Sea Log (Page 1 of 2)							
Engine Speed (rpm) -ECU-	820	831	892	872	82.8	80.2	80.0
Running Hours (hrs)	81.5	81.0	82.8	80.2	80.0	80.0	80.0
Coolant Temperature (°C) -ECU-	80.7	80.3	82.0	82.0	80.0	80.0	80.0
Coolant Temperature (°C) -EMU-	73.8	74.2	75.1	73.4	73.4	73.4	73.4
Lube Oil Temperature (°C)	43.8	48.4	48.2	42.5	7.1	7.1	7.3
Lube Oil Pressure (bar) -ECU-	27.4	22.9	23.8	24.2	7.2	7.2	7.4
Lube Oil Pressure (bar) -EMU-	53.5	53.7	53.2	53.2	7.5	7.4	7.2
Lube Oil Before Filtr Pressure (bar)	184.8	162.1	162.1	165.1	0.4	0.3	0.4
Lube Oil Filter Diff Pressure (bar)					7.8	7.8	8.4
Fuel Oil Before Filtr Pressure (bar)					7.7	7.7	7.4
Fuel Oil Before Filtr Pressure (bar)					0.2	0.0	1.0
Fuel Oil Filter Diff Pressure (bar)					-7.21	-6.69	-6.20
Crank Case Pressure (mbar)					3.4	3.4	3.3
Charge Air Temperature (°C)					8.2	8.3	8.3
Charge Air Seq Ctrl Vlv Temp (°C)	771	744	770	777			
Fuel Consumption (ECU Est.) (l/hr)	83.3	80.9	83.3	84.0			
Load (% of DBR)	660	660	656	660			
Water Jet Shaft RPM							

Propulsion (Waterjets)

ME4	ME2	ME1	ME3	ME4	ME2	ME1	ME3
OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK
Lube Oil Pressure	Lube Oil Pressure	Lube Oil Pressure	Lube Oil Pressure	Lube Oil Pressure	Lube Oil Pressure	Lube Oil Pressure	Lube Oil Pressure
High	High	High	High	High	High	High	High
OK	OK	OK	OK	OK	OK	OK	OK
OK	OK	OK	OK	OK	OK	OK	OK

Power Management

SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2
479.8	0.0	0.0	480.3	0.0	0.0
86.2	0.0	0.0	90.4	0.0	0.0
51.8	0.0	0.0	85.6	0.0	0.0
-0.87	1.00	1.00	-0.88		
90.0	0.0	0.0	90.0		
26.8	27.1	26.9	26.9		
14903	15417	15858	15735		

Miscellaneous

PORT		STBD	
gal	%	gal	%
391.4	56.6	399.4	57.8
88	47.4	104	56.3
796	79.6	703	19.5
703	19.5		

Comments Level: 9.1 S.O.G.: 36.8 S.T.W.: 37.5 Wind Spd: 40 Wind Dir: 000 Seas: Cal m M.D.: 6'9"

Route: SIT - ABBY

Date/Time: 08/30/15 14:25:14

Signature: 

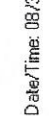
IMACS

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

Propulsion		Power Mgt		Eligge		Tanks		HVAC		Doors		Fire		Collectors	
Propulsion (Engines)															
Exhaust Temperatures															
ME4	ME2	ME1	ME3	Main Bearing Temperatures	ME4	ME2	ME1	ME3	Con Rod Bearing / Piston Cooling	ME4	ME2	ME1	ME3	ME2	ME1
546	542	560	541	Bearing 1 (°C)	100.2	100.6	101.7	101.7	Splash Oil Temperatures	89.8	89.8	91.2	89.3	89.8	91.2
551	535	542	543	Bearing 2 (°C)	106.3	106.6	110.9	107.8	1 (°C)	90.1	90.7	91.7	90.0	90.1	90.7
544	546	548	538	Bearing 3 (°C)	107.6	108.5	113.2	108.9	2 (°C)	90.7	91.2	92.6	90.5	90.7	91.2
552	552	549	538	Bearing 4 (°C)	108.3	108.2	112.8	110.5	3 (°C)	90.1	89.8	92.1	89.4	90.1	89.8
531	537	541	549	Bearing 5 (°C)	104.4	105.1	107.8	104.0	4 (°C)	89.1	89.7	91.4	86.8	89.1	89.7
552	540	558	534	Bearing 6 (°C)	104.5	106.2	108.2	104.9	5 (°C)	89.3	89.9	91.1	88.9	89.3	89.9
541	535	556	549	Bearing 7 (°C)	102.8	104.7	108.2	104.4	6 (°C)	90.1	90.5	92.2	90.0	90.1	90.5
560	557	571	561	Bearing 8 (°C)	106.1	105.9	110.5	106.6	7 (°C)	90.4	89.8	91.7	89.9	90.4	89.8
559	537	548	537	Bearing 9 (°C)	102.5	105.7	105.9	104.4	8 (°C)	89.0	89.2	90.9	88.6	89.0	89.2
541	522	559	547	Bearing 10 (°C)	104.0	103.8	108.9	104.0	9 (°C)	87.8	88.7	90.3	87.6	87.8	88.7
547	535	558	538	Bearing 11 (°C)	92.6	92.3	96.6	93.7	10 (°C)						
552	542	541	546	Mean Main Bearing Temp (°C)	103.6	104.3	107.7	104.6	Mean Bearing Splash Oil Temp (°C)	89.6	89.9	91.5	89.3		
548	536	554	542												
550	533	550	547												
540	533	542	542												
553	541	564	557												
545	536	545	548												
563	556	561	554												
539	535	561	539												
533	530	527	534												
547	539	552	544												

Make Master
Make Slave
Sea Log 1
Beal Log 2
Harbor Log
HMON/ADIS
Active Alarms
Historic Alarms
Disk Log
Runtimes
Print

Signature: *[Handwritten Signature]*



MAIN ENGINE:	#1	#2	#3	#4	Description		
LO Sump Level	Full	Full	Full	Full	Confirm sump is full.		
LO Replenishing Tk Level	1/2	3/8+	1/2	3/8+	Log level before fill; 3/4 max 1/4 min		
LO Replenishing Tk Level	—	5/8	—	5/8	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 @ 21:30	6.5	10.3	10.1	10.5	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	S.oily	S.oily			Dry Wipe machinery leaks		
WATER JET:	#1	#2	#3	#4			
Hydraulic Oil Level	7.8	7.4	7.4	7.6	Log level 7.0 - 9.0 cm normal		
Hydraulic Oil Pump	R-R	R-R	R-R	R-R	In Remote		
Lube Oil Level	8.5	8.9	8.3	8.8	Log level 7.0 - 9.0 cm normal		
Coalescer Filter	W-NO	H-NO	W-NO	W-NO	Chk drain (Log H2O amount) Check temp		
Waterjet Shaft Seal	—	—	—	—	Check bucket for shaft seal leakage		
Waterjet Compartment Bilge	VS. DAMP	Dry			Dry		
GENERATOR:	#1	#2	#3	#4			
LO Sump level	Full	Add	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	1-NONE	3-NONE	2-NONE	0-NONE	Drain Water, Log Amount, <u>Reset Red Needles</u>		
NFV Sludge Tank	Stbd	NONE	Port	NONE	Check drain, Log discharge amount		
Fuel Tank Sounding	DB3	5'-1"	DB4	5'-0"	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	8.0	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:					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 92°	Aft 9cm	Temp 98°	Tank Level (3/4 normal) Record Temps		
Anchor Windlass Tank Level	7cm	Temp 75°			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 ovhd. Dry bilge		
SHORE TANK SOUNDINGS:	Used LO	115	Bilgewater	360	Sewage 175	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>6/2g</u> ME3 <u>0</u> ME4 <u>6/2g</u> Bi-Weekly Urinal Rx (Blue Seal): Fwd ___ Aft ___ ➔ Added 1/2g LO to AE#2 ➔ #2 Coalescer is still Very HOT compared to other 3.							
Name:	LADWIG	First Engr Initial:	Day:	Monday	Date:	8.31.2015	

M/V Chenega Engineering Log

Monday, 31 August 2015

Tank Levels	FO Port	FO Stbd	FO Total	Potable	Sewage	LO P/S	
Onboard @ 0000	6107	6152	12259	766	1052	87	104
Received (Transferred)			4500				
Onboard @ 0600 (Stby)	6107	6152	12259	733	1123	87	104
Onboard @ 1800 (FWE)	3359	3374	6733	644	1551	87	104
Onboard @ 2400	5582	5631	11213	441	1569	70	104
Consumed (Produced)			5546	125	517	17	0
Marine Diesel #1 / 2 from Tank Truck	Amount (Gal)	Temp (°F)	API Gravity (°)	Flash Pt (°F)	Time Start	Time Stop	
	4500	51	34	160	1853	1914	
Machinery Run Time	Main Eng	Main Eng	Main Eng	Main Eng	Generator 1 2 (3) (4)		
Departure Port	JNU	SIT			FO Boost Pump 1 2 (3) (4)		
Arrival Port	SIT	JNU			Parker FO Filter Press ("Hg)		
OP3.2 Dep / OP1.2 Arr	✓ 1 ✓	✓ 1 ✓	1	1	4- 0 2- 2 1- 0 3- 0		
Start (Clutch In)	0727	1315			NFV Supply Diff (Bar mBar)		
Stop (Clutch Out)	1240	1758			P- 1.0 0.15 S- 8.2 10.12		
Run Hours	5.1	4.8			WJ Hyd Filter Cart 1 2 3 4		
Run Miles	136	136			Shore Sewage @ 2400 170		
Car Deck Fans ON	0650	1240	1759				
Car Deck Fans OFF	0711	1301	1805				
Shore Power	Time Start	Time Stop	Hours	Voltage (V _{avg})	Current (I _{avg})	Power (kW _{avg})	
	0001	0537	5				
	1802	2400		464/464	93/91	56/54	
On Duty	Day C/E	Day 1/E	Night C/E	Night 1/E	Wiper		
	Wilson	Early	Walsh	Gassan	Ladwig		

Operation, Maintenance, and Inspection Comments:

11:10 Ingested Debris in jet #4

11:27 Cleared, Normal operation

SSDG 1 Did not go online @ (X) JNU

Day Chief Engineer *Wayne Wilson* Night Chief Engineer *Tommy Walsh*

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) -EDU-	1873	1872	1884	1873	Engine Speed (rpm) -EMU-	1874	1872	1862	1872	ETC Speed 1 (A1) (krpm)	51.4	51.0	51.4	51.0	51.1	51.2
Running Hours (hrs)	830	841	902	882	Raw Water Pressure (bar)	3.5	3.3	3.4	3.4	ETC Speed 2 (B1) (krpm)	51.3	51.3	51.3	51.3	51.8	51.8
Coolant Temperature (°C) -EDU-	81.5	81.0	82.8	80.5	Coolant Pressure (bar)	5.7	5.4	5.5	5.8	ETC Speed 3 (A2) (krpm)	51.8	51.5	51.4	51.5	51.5	51.5
Coolant Temperature (°C) -EMU-	80.7	80.4	82.1	80.0	Lube Oil Pressure (bar) -EDU-	7.1	7.1	7.3	7.0	ETC Speed 4 (B2) (krpm)	51.3	51.2	51.5	51.5	51.6	51.6
Lube Oil Temperature (°C)	73.8	73.9	75.1	73.4	Lube Oil Pressure (bar) -EMU-	7.2	7.2	7.4	7.0	Pre ETC 1 (A1) Exhaust Temp (°C)	599.5	579.5	581.1	579.2	579.2	579.2
Fuel Temperature (°C)	44.1	48.4	48.2	42.6	Lube Oil Before Filtr Pressure (bar)	7.5	7.4	7.7	7.3	Pre ETC 2 (B1) Exhaust Temp (°C)	596.5	563.0	571.1	571.0	571.0	571.0
Intake Air Temperature (°C)	27.8	23.6	24.9	26.0	Lube Oil Filter Diff Pressure (bar)	0.4	0.3	0.4	0.3	Pre ETC 3 (A2) Exhaust Temp (°C)	642.4	632.4	645.0	638.5	638.5	638.5
Charge Air Temperature (°C)	53.4	53.4	53.2	52.9	Fuel Oil Pressure (bar)	7.8	7.7	7.8	7.8	Pre ETC 4 (B2) Exhaust Temp (°C)	618.1	608.8	619.2	615.0	615.0	615.0
Charge Air Seq Ctrl/Vlv Temp (°C)	165.1	163.7	162.9	165.1	Fuel Oil Before Filtr Pressure (bar)	7.7	7.7	7.8	7.9	Mean Exhaust Temp (°C)	549	541	552	546	546	546
Fuel Consumption (ECU Est.) (l/hr)	780	762	779	787	Fuel Oil Filter Diff Pressure (bar)	0.2	0.0	0.1	0.0	Mean Main Bearing Temp (°C)	103.8	104.5	107.9	104.8	104.8	104.8
Load (% of DBR)	84.3	83.0	84.4	85.1	Crank Case Pressure (mbar)	-7.11	-7.04	-5.50	-6.02	Mean Bearing Splash Oil Temp (°C)	89.7	90.0	91.6	89.3	89.3	89.3
Water Jet Shaft RPM	663	663	659	661	Charge Air Pressure (bar)	3.4	3.4	3.4	3.4	Red Gear Control Oil Pressure (bar)	24.0	24.1	24.6	23.8	23.8	23.8
					Start Air Pressure (bar)	8.2	8.3	8.3	8.3	Red Gear Oil Temperature (°C)	62.7	63.6	59.8	59.4	59.4	59.4

Propulsion (Waterjets)


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

Power Management

	SSDG4	SSDG2	SSDG1	SSDG3	Shore1	Shore2	SSDG4	SSDG2	SSDG1	SSDG3	
Voltage (V)	480.1	0.0	0.0	480.4	0.0	0.0	Lube Oil Pressure (bar)	3.3	-0.3	0.1	3.1
Current (A)	70.8	0.0	0.0	71.9	0.0	0.0	Jacket Water Temperature (°C)	70.3	64.5	52.2	74.4
Power (kW)	44.6	0.0	0.0	48.5	0.0	0.0	Exhaust Temperature (°C)	251.4	40.5	56.8	262.4
Power Factor	-0.76	1.00	1.00	-0.81			Winding A Temperature (°C)	52.4	36.7	43.5	55.3
Frequency (Hz)	60.0	0.0	0.0	60.0			Winding B Temperature (°C)	55.6	35.5	43.3	55.0
Starting Battery Voltage (V)	26.7	27.0	26.9	26.9	PORT	STBD	Winding C Temperature (°C)	52.0	34.6	42.8	54.0
Engine Hours	14916	15417	15858	15749	Tie Breaker State:	Closed	Unreq Close				

Miscellaneous

	PORT	STBD
Fuel Oil Tank	gal	gal
Lube Oil Tank	%	%
	4228	61.2
	87	47.2
	103	55.4
	657	66.7
	1392	38.7
	657	66.7
	1392	38.7
	657	66.7
	1392	38.7

Comments Lever: 9.1 S.O.G.: 35.7 S.T.W.: 34.6 Wind Dir: 000 Wind Spd: 40 Seas: calm M.D.: 7'0"
 Route: SIT-ABAY
 Date/Time: 08/31/15 15:11:09
 Signature: 



- Make Master
- Make Slave
- Sea Log 1
- Sea Log 2
- Harbor Log
- HMON/ADIS
- Active Alarms
- Historic Alarms
- Disk Log
- Runtimes
- Print

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)	549	542	564	543	Bearing 1 (°C)	100.6	101.0	102.1	101.7	1 (°C)	89.8	90.0	91.2	89.3
Cylinder A2 (°C)	552	539	541	541	Bearing 2 (°C)	106.8	107.0	111.6	108.2	2 (°C)	90.1	91.0	92.0	90.3
Cylinder A3 (°C)	545	548	552	540	Bearing 3 (°C)	107.8	108.9	113.5	109.2	3 (°C)	91.0	91.5	92.9	90.5
Cylinder A4 (°C)	553	553	551	538	Bearing 4 (°C)	109.7	108.5	113.2	110.8	4 (°C)	90.1	90.0	92.1	89.4
Cylinder A5 (°C)	535	538	539	550	Bearing 5 (°C)	104.6	105.5	108.0	104.0	5 (°C)	89.1	89.7	91.4	88.8
Cylinder A6 (°C)	553	542	555	534	Bearing 6 (°C)	104.7	108.6	108.5	105.1	6 (°C)	88.8	90.0	91.3	88.8
Cylinder A7 (°C)	542	537	556	551	Bearing 7 (°C)	103.2	105.1	108.5	104.4	7 (°C)	90.5	90.8	92.3	90.0
Cylinder A8 (°C)	561	558	571	561	Bearing 8 (°C)	105.5	106.0	110.8	107.0	8 (°C)	90.6	90.2	91.7	89.9
Cylinder A9 (°C)	559	540	547	538	Bearing 9 (°C)	102.8	106.2	106.0	104.7	9 (°C)	89.0	89.5	91.1	88.9
Cylinder A10 (°C)	543	525	558	549	Bearing 10 (°C)	104.0	104.0	109.3	104.4	10 (°C)	87.5	89.0	90.1	87.6
Cylinder B1 (°C)	549	538	562	539	Bearing 11 (°C)	92.7	92.3	95.9	93.7					
Cylinder B2 (°C)	552	542	538	551										
Cylinder B3 (°C)	549	538	557	544										
Cylinder B4 (°C)	550	535	551	548										
Cylinder B5 (°C)	541	537	543	543										
Cylinder B6 (°C)	553	542	565	555										
Cylinder B7 (°C)	545	538	543	549										
Cylinder B8 (°C)	563	555	567	556										
Cylinder B9 (°C)	541	538	559	540										
Cylinder B10 (°C)	534	532	527	535										
Mean Exhaust Temp (°C)	549	540	552	545	Mean Main Bearing Temp (°C)	103.8	104.7	108.0	104.8	Mean Bearing Splash Oil Temp (°C)	89.8	90.2	91.6	89.4

Comments

Date/Time: 08/31/15 15:14:25

Signature: *[Handwritten Signature]*



- Make Master
- Make Slave
- Sea Log 1
- Sea Log 2
- Harbor Log
- HMON/ADIS
- Active Alarms
- Historic Alarms
- Disk Log
- Runtimes
- Print

Blige Equipment

Date/Time: 08/30/15 19:14:22

PORT Bow Thruster Blige Pump	0
Compartment 2 Blige Pump	0
Compartment 4 Blige Pump	0
Compartment 6 Blige Pump	0
Double Bottom 6 Blige Pump	0
Double Bottom 8 Blige Pump	0
PORT Engine Room Blige Pump	0
PORT Water Jet Space Blige Pump	0

STBD Bow Thruster Blige Pump	0
Compartment 1 Blige Pump	0
Compartment 3 Blige Pump	0
Compartment 5 Blige Pump	0
Double Bottom 5 Blige Pump	0
Double Bottom 7 Blige Pump	0
STBD Engine Room Blige Pump	0
STBD Water Jet Space Blige Pump	0

WaterJet Equipment

Water Jet WJ2 Lube Oil Pump	3327
Water Jet WJ4 Lube Oil Pump	3325
Water Jet WJ2 Hydraulic Power Pack	180
Water Jet WJ4 Hydraulic Power Pack	331

Water Jet WJ3 Lube Oil Pump	3312
Water Jet WJ1 Lube Oil Pump	3316
Water Jet WJ3 Hydraulic Power Pack	264
Water Jet WJ1 Hydraulic Power Pack	249

Diesel Generators

SSDG 2	15417
SSDG 4	14906

SSDG 1	15859
SSDG 3	15738

Ventilation Fans

PORT Engine Room Supply Fan 2 High	260
PORT Engine Room Supply Fan 2 Low	982
PORT Engine Room Supply Fan 4 High	99
PORT Engine Room Supply Fan 4 Low	865
Vehicle Deck PORT FWD Exhaust Fan 2	94
Vehicle Deck PORT AFT Exhaust Fan 4	54

STBD Engine Room Supply Fan 3 High	121
STBD Engine Room Supply Fan 3 Low	769
STBD Engine Room Supply Fan 1 High	257
STBD Engine Room Supply Fan 1 Low	1078
Vehicle Deck STBD FWD Exhaust Fan 1	90
Vehicle Deck STBD AFT Exhaust Fan 3	56

Fuel Services

PORT Fuel Oil Booster Pump 2	1172
PORT Fuel Oil Booster Pump 4	869

STBD Fuel Oil Booster Pump 1	1134
STBD Fuel Oil Booster Pump 3	911

Services

PORT Air Compressor	3523
PORT Sprinkler Pump	1
PORT Fire Pump	2
Fresh Water Pump 1	3985
Fresh Water Pump 2	102
Interceptor/Stern Door Hydraulic Power Pack 1	54
Interceptor/Stern Door Hydraulic Power Pack 2	0

STBD Air Compressor	2132
STBD Deluge Pump	1
STBD Fire Pump	1
Sewage Transfer Pump	17
HVAC Chiller Water Pump 1	2456
HVAC Chiller Water Pump 2	980
HVAC Sea Water Pump 1	820

Propulsion

Main Engine 2	834
Main Engine 4	823

Main Engine 1	895
Main Engine 3	875

