



ECR. 5.1 - LUBRICATION OIL CONSUMPTION REPORT

Date :10/08/2018
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 Made by : QHSE
 Approved by : MD
 Rev. No :0

Vessel's Name : Bitu Atlantic
Date (dd/mm/yy) : 30/11/2018
Lube Oil Supplier : Shell & BP

Application	Product Name	ROB Previous Month End	Quantity Received	Date Received	ROB Month End	Broached Oil	Total Cons this Month
M.E. System Oil (Itrs)	Melina S30	10000			9000		1000
A/E System Oil (Itrs)	Argina X40	3800			3090		710
M.E. Cylinder Oil (Itrs)	Alexia 50	18030			11690		6340
Stern Tube Oil (Itrs)	Naturelle S4	418			418		0
Thermal Oil (Itrs)	Heat Transfer oil S2	5000			5000		0
Mair Air Compressor Oil (Itrs)	Corena S2-P100	100			90		10
Purifier G/Box Oil (Itrs)	Omalla S2-G150	40			40		0
A.C & Fridge Compressor Oil (Itrs)	BP Enersyn MP-68	20			20		0
Windlass / Winch Hydraulic Oil (Itrs)	Castrol Hydflux ES 68	890			890		0
Steering Gear Oil (Itrs)	Tellus S2 V68	800			770		30
Lifeboat & Emerg.Gen. Crancase Oil (Itrs)	Rotella T 15 W40	55			55		0
Remote Valve Sys. Hyd Oil (Itrs)	Shell Tellus S2 V15	209			209		0
Emergency Diesel Gen Oil (Itrs)	Castrol/Tection Global 15W40	20			20		0
COP Gear Oil (Itrs)	Shell Omalla S2 G460	20			20		0
Gear Oil Lubricant (Itrs)	Total EP 680	70			70		0
Turbine Oil (Itrs)	Shell T68	55			55		0
Aux. Diesel Alternator & Bilge Transfer Pump	Shell Turbo T68	20			20		0
Deck air compressor oil (Itrs)	Atlas Copco Roto Xtend Duty Fluid	50			50		0
Gear oil (Itrs)	BP GR – XP 220	40			40		0
Open Gear and Wire Rope Grease (kgs)	Jomo Gear Compound 2	294			294		0

To be completed on monthly basis and forwarded by Email & Filed on board in ECR 5.1 folder



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Application	Product Name	ROB Previous Month End	Quantity Received	Date Received	ROB Month End	Broached Oil	Total Cons this Month
Bearing and Grease Point (kgs)	Total Ceran Add Plus	35			35		0
Bearing and Grease Point (kgs)	Jomo Reductos 220	72			72		0
Cargo Pump High Temp. Grease	Shell Gadus S3 V220C 2	18			18		0
Rudder Carrier (kgs)	Shell Naturelle S5	60			58		2
Steering gear, Ballast pump and Rudder carrier (kgs)	Gadus S2 V220 2	40			40		0
Misc. Grease (kgs)	Multi EP1	36			36		0

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	Total Running Hrs This Month	Daily Average Consumption ltrs/day		Specific Consumption gr / kWh	
		Sump Oil	Cyl. Oil	Sump Oil	Cyl. Oil
Main Engine	526	45.6	289.3	0.27gr / kWh	1.71 gr / kWh
Aux. Engine 1	288	19.8	0		
Aux. Engine 2	127	19.8	0		
Aux. Engine 3	445	19.8	0		
Aux. Engine 4					

Lube Oil Consumption Calculations:

Sp. Cyl. Oil Cons ingm/BHP/hr. = $(Co \times D) / (h \times Pe) = (290 \times 0.91) / (24 \times 5893) = (289.3 \times 0.91) / (24 \times 6430)$
 = **1.71 gr / kWh**

Co= Cylinder Oil Cons over measured period (ltrs)
 D= Corrected Sp Gravity (temp correction) (kgs/cu.mtrs)
 h- Measuring period (hrs)
 Pe (effective power during test) = BHP (0.7457 kW)

Sp. System Oil Cons in gm/BHP/hr. = $(So \times D) / (h \times Pe) = (45.6 \times 0.91) / (24 \times 6430) = \mathbf{0.27 \text{ gr / kWh}}$

So= System Oil Cons over measured period (ltrs)
 D= Corrected Sp Gravity (temp correction) (kgs/cu.mtr)
 h = Measuring period (hrs)
 Pe (effective power during test) = BHP (0.7457 kW)

ANDRIESANU Dumitru
 Name Chief Engineer



Signature