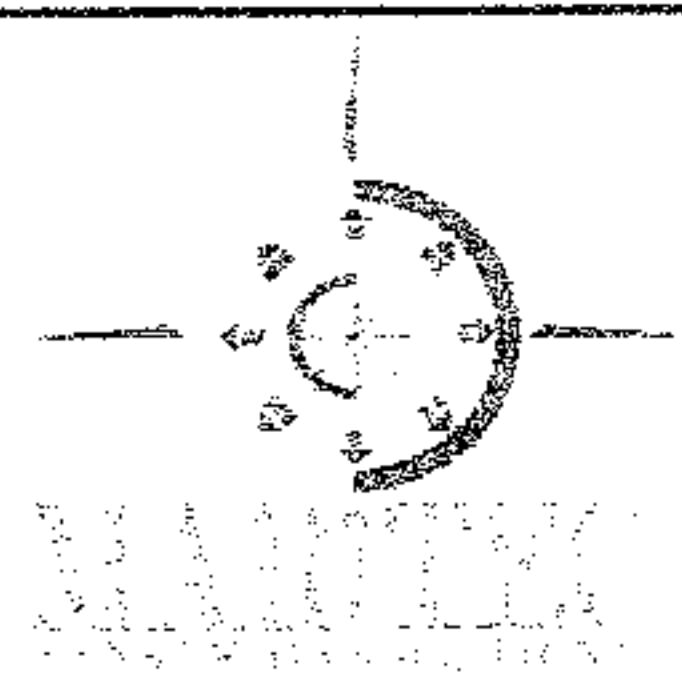
	<b>ECR. 5.1 - LUBRICATION OIL CONSUMPTION REPORT</b>	Date : 10/08/2018
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		Approved by : MD
		Rev. No : 0

<b>Vessel's Name</b> : Bitu Atlantic
<b>Date (dd/mm/yy)</b> : 31/10/2018
<b>Lube Oil Supplier</b> : 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	10500			10000		500
A/E System Oil (Itrs)	Argina X40	550	6000	19/10/18	5000		1,550
M.E. Cylinder Oil (Itrs)	Alexia 50	20000			18030		1970
Stern Tube Oil (Itrs)	Naturelle S4	0	627	19/10/18	418		209
Thermal Oil (Itrs)	Heat Transfer oil S2		59983	19/10/18	5000		59483
Mair Air Compressor Oil (Itrs)	Corena S2-P100	40	60	19/10/18	100		0
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 Hydlux ES 68	890			890		0
Steering Gear Oil (Itrs)	Tellus S2 V68	1000			800		200
Lifeboat & Emerg. Gen. Crancase Oil (Itrs)	Rotella T 15 W40	55			55		0
Remote Valve Sys. Hyd Oil (Itrs)	Shell Tellus S2 V15	0	209 418	02/10/18 19/10/18	209		418
Emergency Diesel Gen Oil (Itrs)	Castrol/Tection Global 15W40	20			20		0
COP Gear Oil (Itrs)	Shell Omalla S2 G460	0	40	19/10/18	20		20
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

**ECR. 5.1 - LUBRICATION OIL CONSUMPTION REPORT**

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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	0		35		0
Bearing and Grease Point (kgs)	Jomo Reductos 220	72			72		0
Cargo Pump High Temp. Grease	Shell Gadus S3 V220C 2	0	36	19.10.18	18		18
Rudder Carrier (kgs)	Shell Naturelle S5	60			60		60
Steering gear 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	163	0	290		1.90 gr / kWh
Aux. Engine 1	238	20	0		
Aux. Engine 2	222	20	0		
Aux. Engine 3	27	20	0		
Aux. Engine 4					

**Lube Oil Consumption Calculations:**

$$\text{Sp. Cyl. Oil Cons ingm/BHP/hr.} = (Co \times D) / (h \times Pe) = (290 \times 0.91) / (24 \times 5893) = 1.90 \text{ gr / kWh}$$

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)

$$\text{Sp. System Oil Cons in gm/BHP/hr.} = (So \times D) / (h \times Pe)$$

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