



OILCHECK Marine Oils Condition Monitoring Report

Customer Information		Sample Information					Condition							
Customer: Vessel: IMO No: E-mail:		Sample request number: 131889 Lab number: 19050106 Vessel equipment: MAIN ENGINE No1 Product name: ALFAMAR 440 Analysis Date: 8/5/2019												
		Method	Last Sample	Previous Samples										
GENERAL INFORMATION			1	2	3	4	5	Critical Limits						
Lab number			19050106	19040098	19030041	19020447	19010083	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Normal</p> </div> <div style="text-align: center;"> <p>Attention</p> </div> <div style="text-align: center;"> <p>Emergency</p> </div> </div>						
Lubricant			ALFAMAR 440	ALFAMAR 440	ALFAMAR 440	ALFAMAR 440	ALFAMAR 440							
Port			PIRAEUS	PIRAEUS	PIRAEUS	PIRAEUS	PIRAEUS							
Date sampled			30/4/2019	31/3/2019	28/2/2019	31/1/2019	31/12/2018							
Date received			8/5/2019	4/4/2019	6/3/2019	15/2/2019	9/1/2019							
Oil Hours			N/A	N/A	N/A	N/A	N/A							
Total engine hours			29625	N/A	28914	28079	27448							
Consumption l/d			NIL	NIL	NIL	NIL	NIL							
Physicochemical properties														
Appearance	VISUAL		BLACK	BLACK	BLACK	BLACK	BLACK							
Viscosity @ 100°C (mm ² /s)	ASTM D445		16,45	17,27	17,04	16,99	16,84	>25% or <15%						
Viscosity @ 40°C (mm ² /s)	ASTM D445		162,3	169,1	168,8	165,5	164,2	>25% or <15%						
TBN (mg KOH/gr)	ASTM D 2896		36,69	34,21	34,11	34,5	35,31	<30% to typical	<50% to typical					
Flash point °C (PMC)	ASTM D 93		>190	>190	>190	>190	>190	<190						
Water (% vol.)	ASTM D 6304		<0,2	<0,2	<0,2	<0,2	<0,2	0.50-1.00 %	>1.00 %					
Pentane Insolubles	ASTM D893		1,46	2,18	1,19	1,33	1,33	2,0-3,0	>3,0					
Wear metals (ppm)														
Iron (Fe)	ASTM D5185		22	27	28	26	19	<100	100-200	>200				
Lead (Pb)	ASTM D5185		0	1	1	0	0	<50	50-10	>100				
Copper (Cu)	ASTM D5185		1	1	1	1	1	<100	100-200	>200				
Tin (Sn)	ASTM D5185		0	0	0	0	0	<15	15-50	>50				
Chromium (Cr)	ASTM D5185		1	1	1	1	1	<15	15-50	>50				
Silver (Ag)	ASTM D5185		0	1	0	0	1	<15	15-50	>50				
Cadmium (Cd)	ASTM D5185		0	0	0	0	0	<15	15-50	>50				
Aluminium (Al)	ASTM D5185		5	6	6	6	5	<15	15-50	>50				
Additive metals (ppm)														
Phosphorus (P)	ASTM D5185		403	355	363	347	305	<25% to typical	<50% to typical					
Calcium (Ca)	ASTM D5185		13352	13448	13691	13680	13583	<25% to typical	<50% to typical					
Zinc (Zn)	ASTM D5185		463	396	445	396	357	<25% to typical	<50% to typical					
Barium (Ba)	ASTM D5185		2	2	2	2	1	<25% to typical	<50% to typical					
Molybdenum (Mo)	ASTM D5185		1	1	1	1	1	<25% to typical	<50% to typical					
Magnesium (Mg)	ASTM D5185		76	61	71	62	59	<25% to typical	<50% to typical					
Contamination (ppm)														
Vanadium (V)	ASTM D5185		34	47	46	44	39							
Nickel (Ni)	ASTM D5185		28	35	35	31	24							
Sodium (Na)	ASTM D5185		32	41	40	37	32							
Total silicon (Si)	ASTM D5185		14	12	13	11	11							
Comments		Normal values of physical-chemical properties and wear metals. The lubricant in proper condition for further use.												

