

OIL ANALYSIS REPORT

Oil Age

Fuel

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Beryllium

Titanium

Aluminum

Chromium

Fwd Machinery Space [450234540] Pump - Fire Water (Stbd) - Engine Crank Case (S/N Sample Tag PA-71001B-S1) Component

Starboard Diesel Engine

{not provided} (806 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.



Sample Rating Trend

	n2016 Apr2017 Jun2019 Jun2020 Feb2020 May2020 Aug2020									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		PC	PC0052569	PC				
Sample Date		Client Info		06 Dec 2023	30 Aug 2023	26 Feb 2023				
Machine Age	hrs	Client Info		0	0	0				
Oil Age	hrs	Client Info		0	0	0				
Oil Changed		Client Info		N/A	N/A	N/A				
Sample Status				NORMAL	NORMAL	MARGINAL				
CONTAMINAT	ION	method	limit/base	current	history1	history2				
Fuel		WC Method	>5	<1.0	1	2 .2				
Water		WC Method	>0.2	NEG	NEG	NEG				
Glycol		WC Method		NEG	NEG	NEG				
WEAR METAL	S	method	limit/base	current	history1	history2				
Iron	ppm	ASTM D5185(m)	>100	4	4	4				
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0				
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1				
Titanium	ppm	ASTM D5185(m)		0	0	<1				
Silver	ppm	ASTM D5185(m)	>3	0	0	0				
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	1				
Lead	ppm	ASTM D5185(m)	>40	2	1	1				
Copper	ppm	ASTM D5185(m)	>330	10	9	5				
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1				
Antimony	ppm	ASTM D5185(m)		0	0	<1				
Vanadium	ppm	ASTM D5185(m)		0	0	0				
Beryllium	ppm	ASTM D5185(m)		0	0	0				
Cadmium	ppm	ASTM D5185(m)		0	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185(m)		<1	1	1				
Barium	ppm	ASTM D5185(m)		0	0	0				

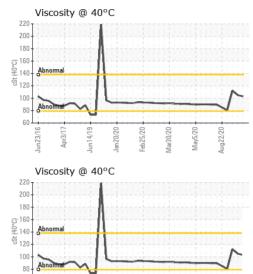
Boron	ppm	ASTM D5185(m)		<1	1	1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	55	54
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		872	916	909
Calcium	ppm	ASTM D5185(m)		955	968	1023
Phosphorus	ppm	ASTM D5185(m)		949	1031	1025
Zinc	ppm	ASTM D5185(m)		1058	1120	1112
Sulfur	ppm	ASTM D5185(m)		2556	2517	2545
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185(m)	limit/base >25	current 3	history1 4	history2 4
Silicon	ppm	ASTM D5185(m)		3	4	4
Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25	3 2	4 2	4 2
Silicon Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20	3 2 <1	4 2 <1	4 2 0
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	>25 >20 limit/base	3 2 <1 current	4 2 <1 history1	4 2 0 history2

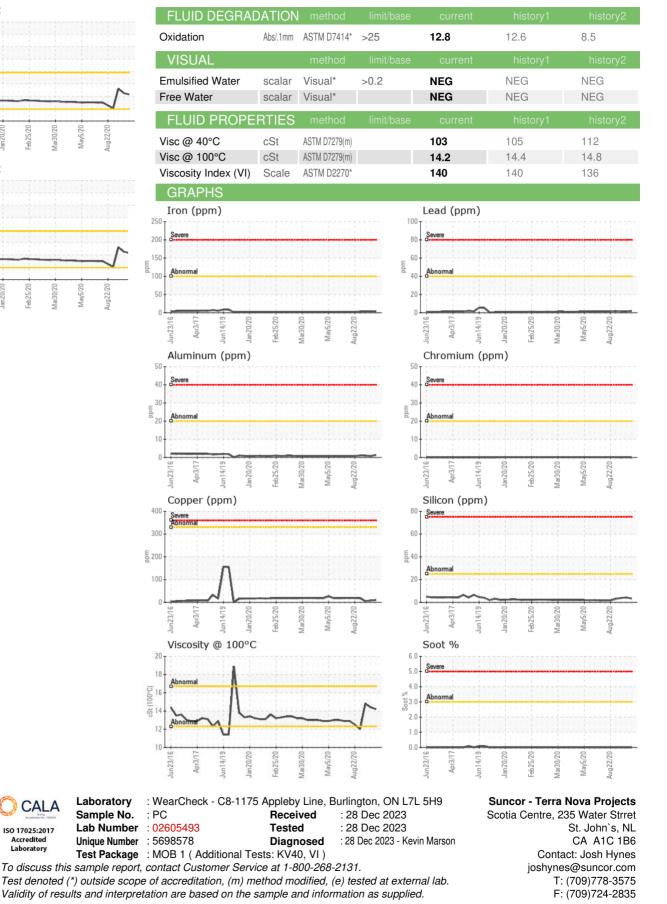


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CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

Contact/Location: Josh Hynes - TERHAM