

## **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Area Machine Id 512 100 766 Component Starboard Main Engine

Fluid SAE 15W40 (75 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

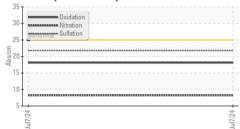
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0522180		
Sample Date		Client Info		07 Jul 2024		
Machine Age	hrs	Client Info		938		
Oil Age	hrs	Client Info		163		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	6		
Chromium	ppm	ASTM D5185(m)	>8	<1		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>3	<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>15	1		
Lead	ppm	ASTM D5185(m)	>18	0		
Copper	ppm	ASTM D5185(m)	>80	4		
Tin	ppm	ASTM D5185(m)	>14	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		134		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		2		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		37		
Calcium	ppm	ASTM D5185(m)		2271		
Phosphorus	ppm	ASTM D5185(m)		1005		
Zinc	ppm	ASTM D5185(m)		1195		
Sulfur	ppm	ASTM D5185(m)		3022		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2		
Sodium	ppm	ASTM D5185(m)	>57	2		
Potassium	ppm	ASTM D5185(m)	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.2		
Nitration	Abs/cm	ASTM D7624*	>20	8.2		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8		



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FT-IR (Direct Trend)

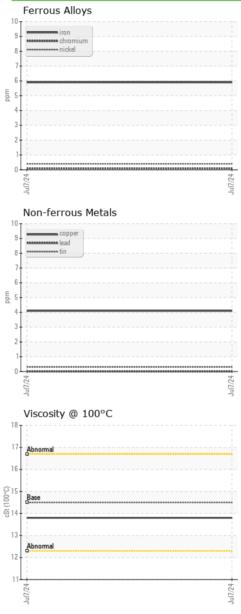


### Viscosity @ 100°C





GRAPHS



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Canadian Coast Guard** : WC0522180 Received CCGS Florencia Bay, 1 Challenger Drive : 10 Jul 2024 Lab Number : 02646960 Tested : 10 Jul 2024 Dartmouth, NS Unique Number : 5812512 Diagnosed : 10 Jul 2024 - Wes Davis CA B2Y 4A2 Contact: Service Manager Test Package : MAR 5 (Additional Tests: FT-IR, ICP, KV100, Spat) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: Validity of results and interpretation are based on the sample and information as supplied. F:



Report Id: CANCCGDAR [WCAMIS] 02646960 (Generated: 07/11/2024 03:04:27) Rev: 1

CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Contact/Location: Service Manager - CANCCGDAR Page 2 of 2