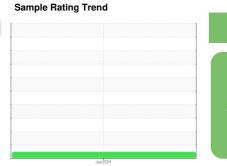


# **OIL ANALYSIS REPORT**

# **UNASSIGNED** [104695] 46490605

Starboard Diesel Engine

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 





### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

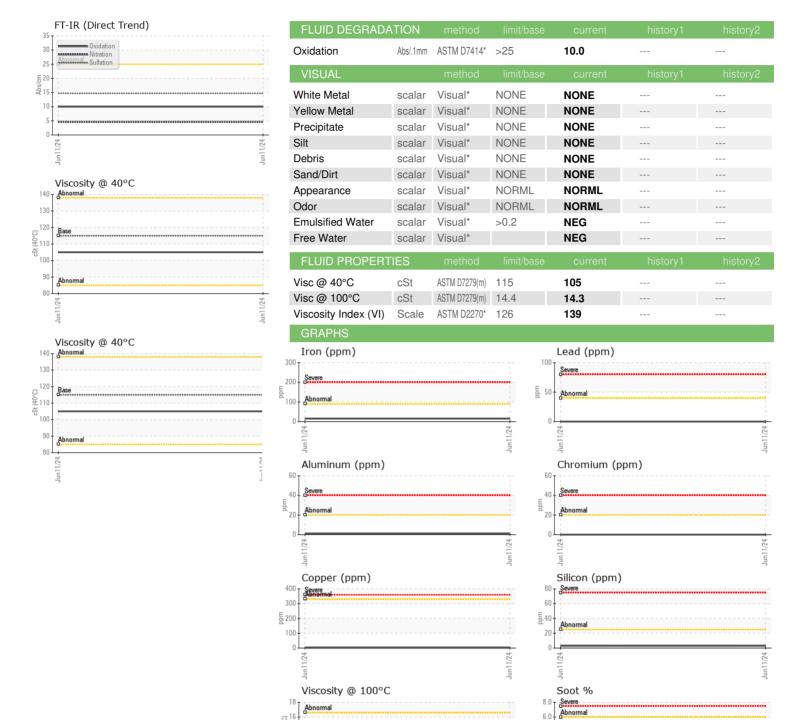
### **Fluid Condition**

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

				Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0021026		
Sample Date		Client Info		11 Jun 2024		
Machine Age	hrs	Client Info		1087		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	15		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	1		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	0		
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)	250	15		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	61		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	906		
Calcium	ppm	ASTM D5185(m)	3000	1156		
Phosphorus	ppm	ASTM D5185(m)	1150	1039		
Zinc	ppm	ASTM D5185(m)	1350	1210		
Sulfur	ppm	ASTM D5185(m)	4250	2675		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)	>158	1		
Potassium	ppm	ASTM D5185(m)	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0		
Nitration	Abs/cm	ASTM D7624*	>20	4.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.7		



## **OIL ANALYSIS REPORT**







Laboratory

Sample No. Lab Number : 02641563 Unique Number : 5799102

: CU0021026

<u>e</u>14

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested** 

Diagnosed

: 13 Jun 2024 : 14 Jun 2024 : 14 Jun 2024 - Wes Davis

0.0

Test Package : MOB 1 ( Additional Tests: KV40, VI, Visual )

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. Validity of results and interpretation are based on the sample and information as supplied.

**CUMMINS EASTERN CANADA LP** 

3189 SWANSEA CRESCENT OTTAWA, ON **CA K1G 3W5** 

Contact: Cindy Harrison cindy.harrison@cummins.com T: (613)736-1146

F: x:

Contact/Location: Cindy Harrison - CUMOTT