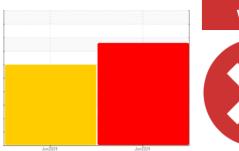


# **OIL ANALYSIS REPORT**

### Sample Rating Trend





Machine Id

# 2006014621

Port Diesel Engine

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

### DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

#### Wear

Aluminum ppm levels are severe. Chromium and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Ring wear is indicated. Piston wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

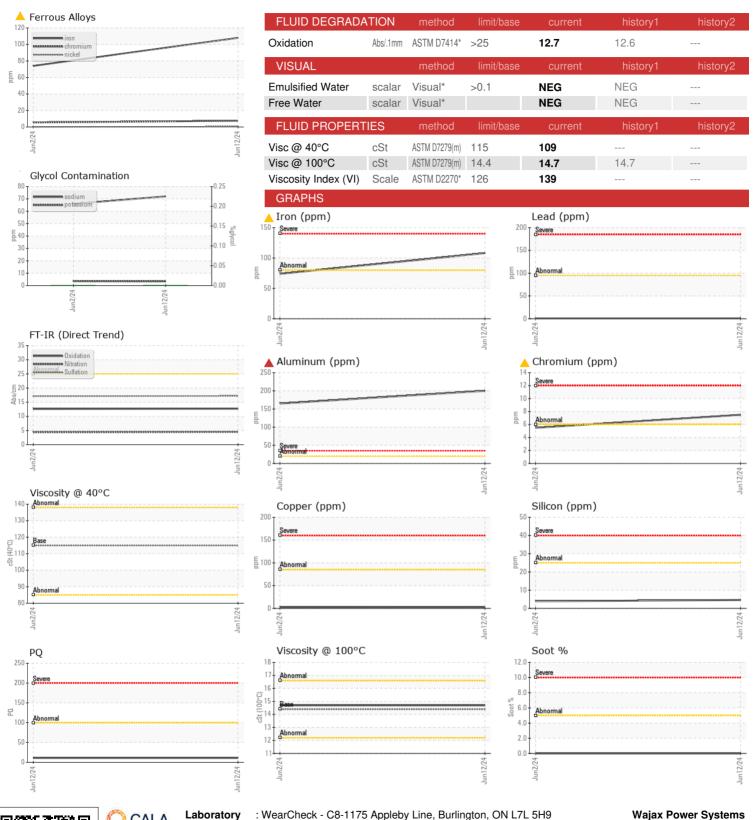
#### **Fluid Condition**

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

		<u>.                                      </u>	Jun2024	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WA0021667	WA0021449	
Sample Date		Client Info		12 Jun 2024	02 Jun 2024	
Machine Age	hrs	Client Info		0	936	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				SEVERE	SEVERE	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		11		
Iron	ppm	ASTM D5185(m)	>80	<u> </u>	74	
Chromium	ppm	ASTM D5185(m)	>6	<u>^</u> 8	6	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<b>200</b>	<b>▲</b> 165	
Lead	ppm	ASTM D5185(m)	>95	<1	<1	
Copper	ppm	ASTM D5185(m)	>85	3	2	
Tin	ppm	ASTM D5185(m)	>9	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	2	2	
Barium	ppm	ASTM D5185(m)	10	0	0	
Molybdenum	ppm	ASTM D5185(m)	100	57	58	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	450	961	976	
Calcium	ppm	ASTM D5185(m)	3000	1014	1038	
Phosphorus	ppm	ASTM D5185(m)	1150	978	987	
Zinc	ppm	ASTM D5185(m)	1350	1129	1135	
Sulfur	ppm	ASTM D5185(m)	4250	2538	2586	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	
Sodium	ppm	ASTM D5185(m)	>158	72	66	
Potassium	ppm	ASTM D5185(m)	>20	3	4	
Glycol	%	ASTM D7922*		0.0	0.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	
Nitration	Abs/cm	ASTM D7624*	>20	4.5	4.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	17.1	



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02641628

: WA0021667

Unique Number : 5799167

Received : 13 Jun 2024 **Tested** Diagnosed

: 13 Jun 2024 : 14 Jun 2024 - Kevin Marson

Test Package : MOB 1 ( Additional Tests: Glycol, KV40, PQ, VI ) 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.

70 Raddall Avenue

Dartmouth, NS **CA B3B 1T7** Contact: Danelle Hoffman dhoffman@wajax.com T: (902)468-6200

F: (902)468-3325