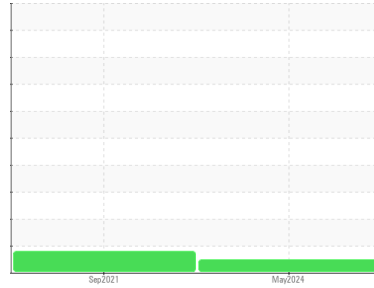




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[7503]

Machine Id

9713

Component

Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0924173	WC0625084	---
Sample Date	Client Info		26 May 2024	25 Sep 2021	---
Machine Age	kms	Client Info	136575	23021	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	MARGINAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	▲ 1.1	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>130	40	45	---
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	19	20	---
Lead	ppm	ASTM D5185(m)	>20	0	<1	---
Copper	ppm	ASTM D5185(m)	>125	2	16	---
Tin	ppm	ASTM D5185(m)	>4	0	1	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
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	39	27	---
Barium	ppm	ASTM D5185(m)	10	0	6	---
Molybdenum	ppm	ASTM D5185(m)	100	1	48	---
Manganese	ppm	ASTM D5185(m)		<1	5	---
Magnesium	ppm	ASTM D5185(m)	450	642	664	---
Calcium	ppm	ASTM D5185(m)	3000	1450	1427	---
Phosphorus	ppm	ASTM D5185(m)	1150	704	912	---
Zinc	ppm	ASTM D5185(m)	1350	824	1081	---
Sulfur	ppm	ASTM D5185(m)	4250	2461	2395	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

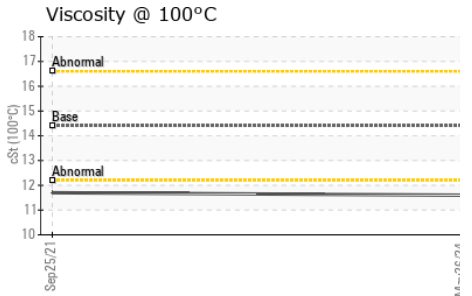
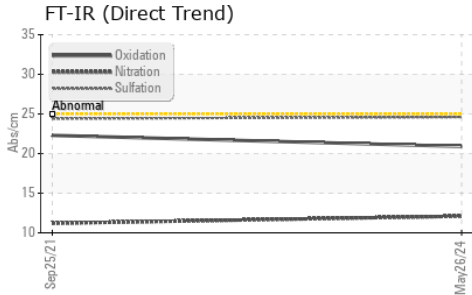
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	22	---
Sodium	ppm	ASTM D5185(m)	>158	3	6	---
Potassium	ppm	ASTM D5185(m)	>20	39	64	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.7	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	12.1	11.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.6	24.4	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	22.3	---

VISUAL

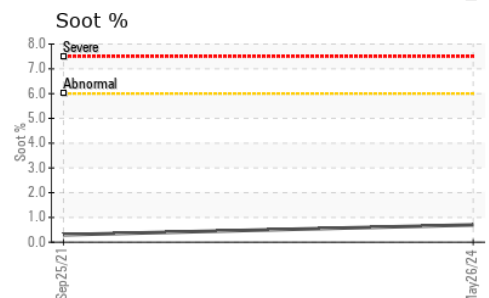
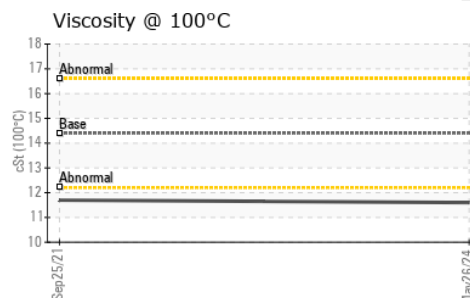
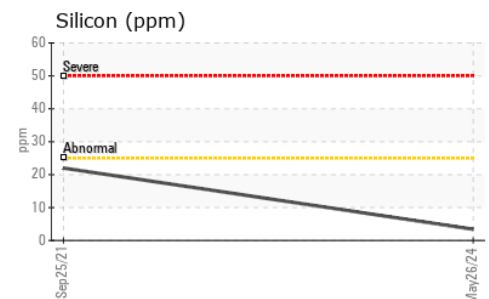
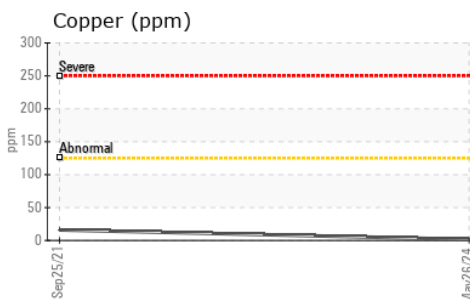
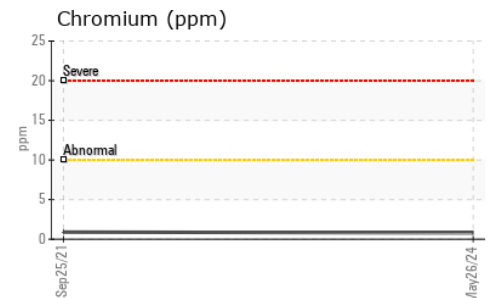
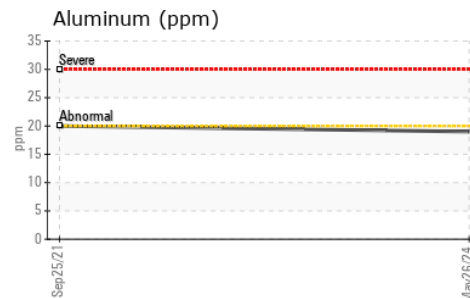
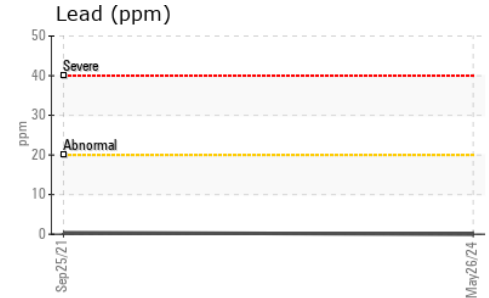
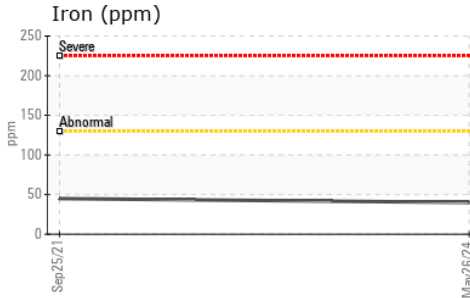
	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---

Free Water	scalar	Visual*	NEG	NEG	---
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FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	11.6	11.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0924173 Received : 25 Jun 2024
 Lab Number : 02643927 Tested : 25 Jun 2024
 Unique Number : 5801466 Diagnosed : 25 Jun 2024 - Wes Davis
 Test Package : MOB 1

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.

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