



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
9808

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

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		WC0853077	---	---
Sample Date	Client Info		16 Nov 2023	---	---
Machine Age	kms	Client Info	26301	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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)	>100	48	---
Chromium	ppm	ASTM D5185(m)	>20	2	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>3	0	---
Aluminum	ppm	ASTM D5185(m)	>20	20	---
Lead	ppm	ASTM D5185(m)	>40	2	---
Copper	ppm	ASTM D5185(m)	>330	72	---
Tin	ppm	ASTM D5185(m)	>15	<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)	250	24	---
Barium	ppm	ASTM D5185(m)	10	5	---
Molybdenum	ppm	ASTM D5185(m)	100	49	---
Manganese	ppm	ASTM D5185(m)		7	---
Magnesium	ppm	ASTM D5185(m)	450	788	---
Calcium	ppm	ASTM D5185(m)	3000	1261	---
Phosphorus	ppm	ASTM D5185(m)	1150	623	---
Zinc	ppm	ASTM D5185(m)	1350	842	---
Sulfur	ppm	ASTM D5185(m)	4250	1903	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

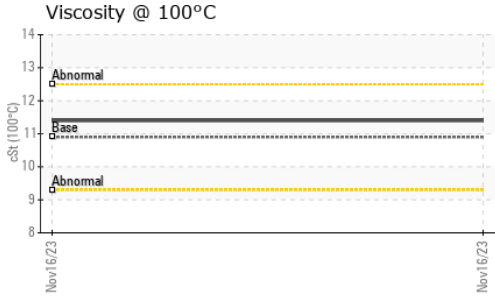
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	29	---
Sodium	ppm	ASTM D5185(m)		8	---
Potassium	ppm	ASTM D5185(m)	>20	66	---

INFRA-RED

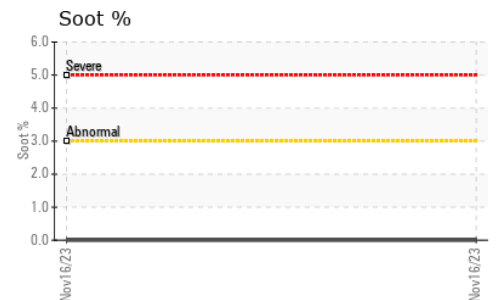
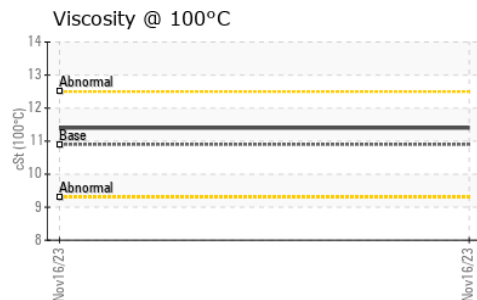
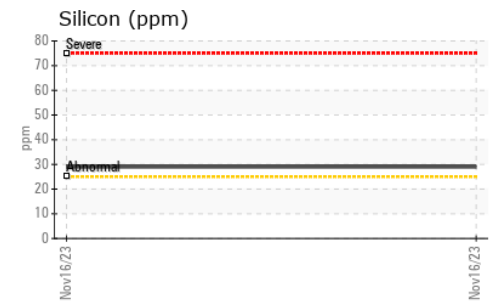
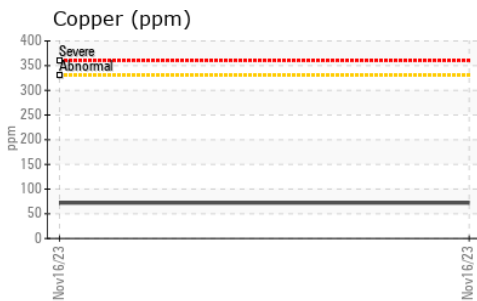
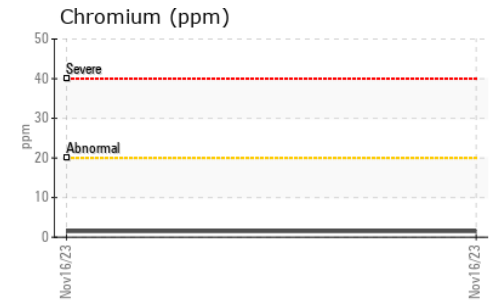
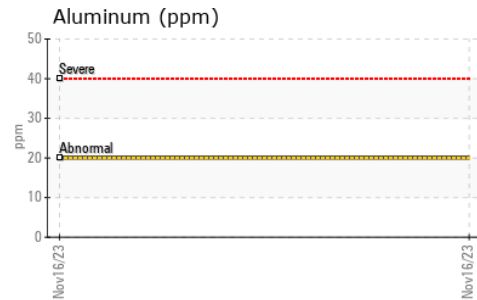
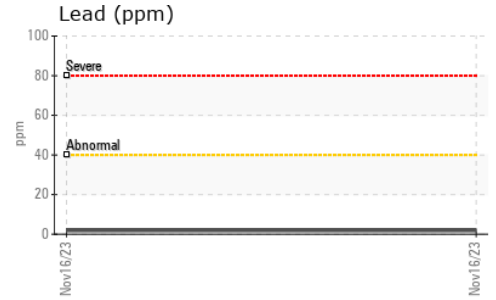
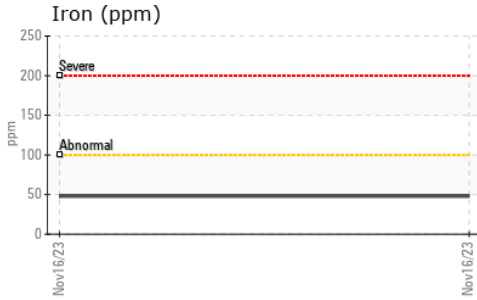
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	---
Nitration	Abs/cm	ASTM D7624*	>20	11.3	---
Sulfation	Abs./1mm	ASTM D7415*	>30	22.4	---



OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	22.5	---	---
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.4	---	---
GRAPHS						



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853077 **Received** : 19 Jan 2024
Lab Number : **02609865** **Diagnosed** : 19 Jan 2024
Unique Number : 5710951 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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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.