



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
ABNORMAL
ATTENTION

Area

OPC CANADA [6100216955]

Machine Id

16E0006297

Component

Diesel Engine

Fluid

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

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020816	---	---
Sample Date		Client Info		28 Nov 2023	---	---
Machine Age	hrs	Client Info		177	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Tin ppm levels are abnormal. Piston wear is indicated.

Iron	ppm	ASTM D5185(m)	>200	19	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>2	3	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>30	1	---	---
Lead	ppm	ASTM D5185(m)	>30	24	---	---
Copper	ppm	ASTM D5185(m)	>30	272	---	---
Tin	ppm	ASTM D5185(m)	>15	▲ 20	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

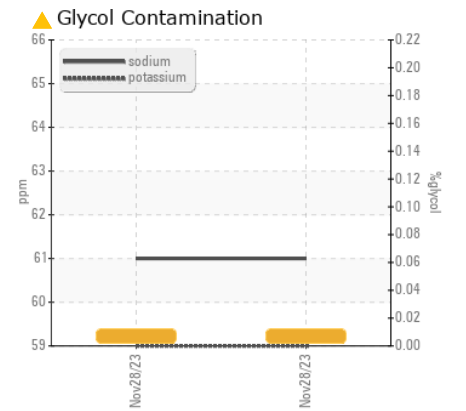
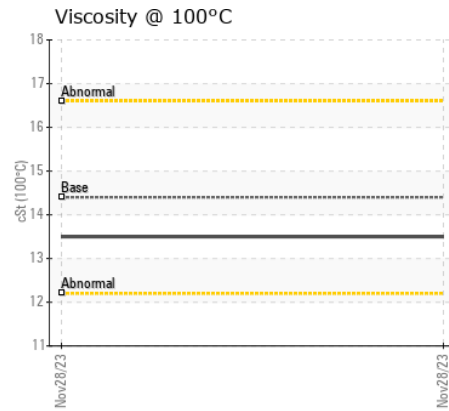
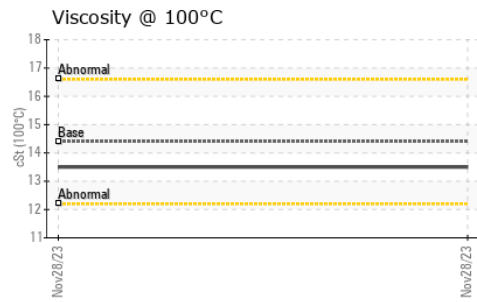
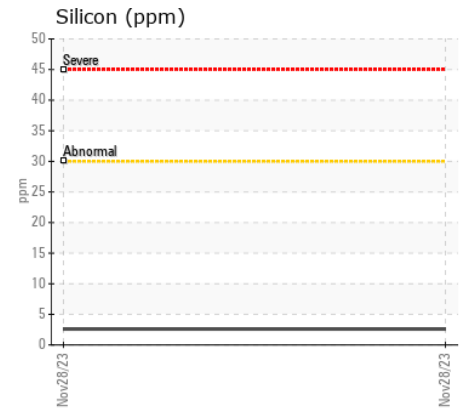
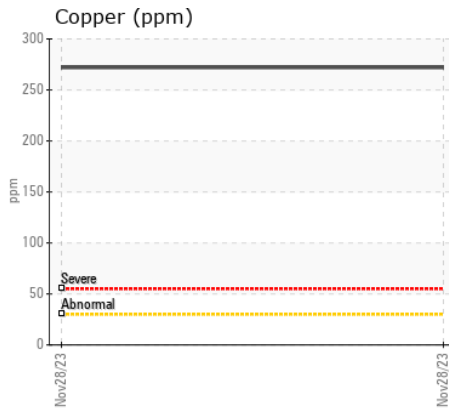
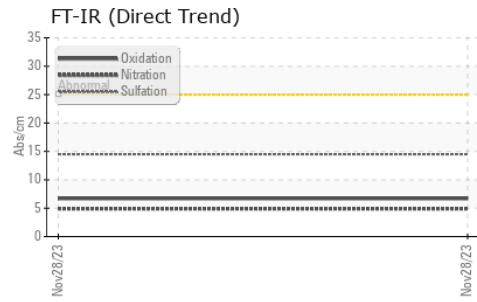
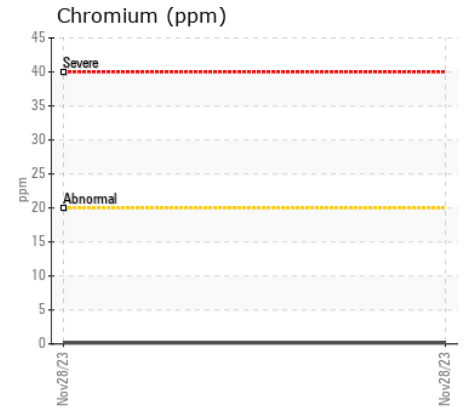
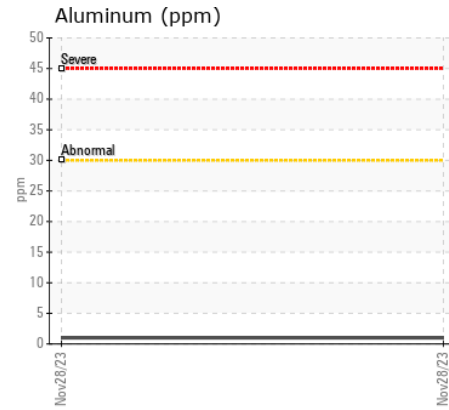
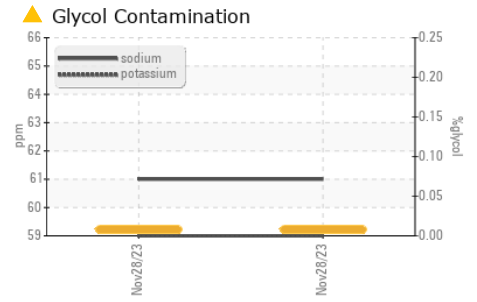
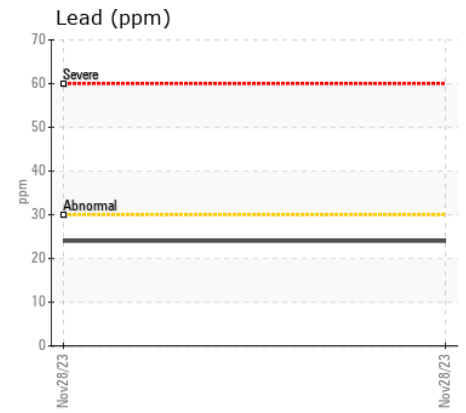
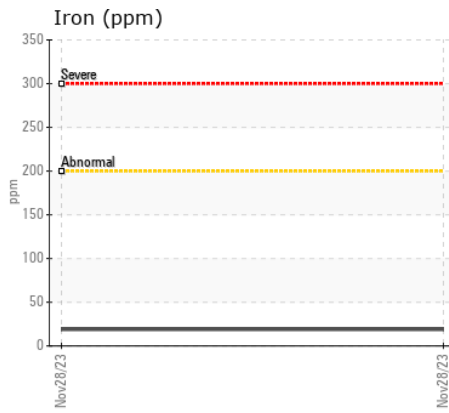
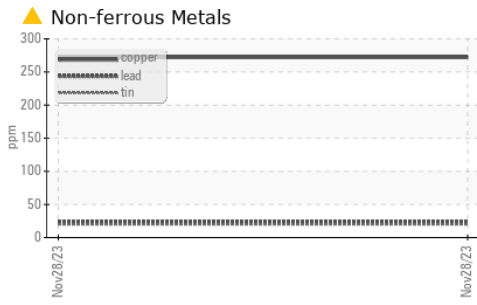
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	---	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 59	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		▲ 0.012	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	4.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.5	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	● 61	---	---
Boron	ppm	ASTM D5185(m)	250	5	---	---
Barium	ppm	ASTM D5185(m)	10	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	100	64	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	450	445	---	---
Calcium	ppm	ASTM D5185(m)	3000	1663	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	874	---	---
Zinc	ppm	ASTM D5185(m)	1350	960	---	---
Sulfur	ppm	ASTM D5185(m)	4250	3302	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020816 **Received** : 08 Dec 2023
Lab Number : 02601780 **Tested** : 09 Dec 2023
Unique Number : 5694865 **Diagnosed** : 11 Dec 2023 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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.