



OIL ANALYSIS REPORT

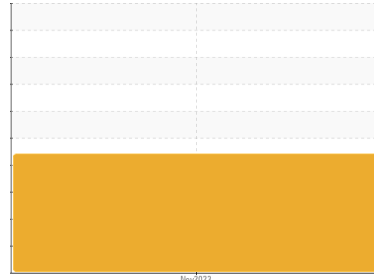
Sample Rating Trend

FUEL



Area
SHARP BUS LINES
Machine Id
INTERNATIONAL 1240

Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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.

Wear

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

Contamination

There is a high amount of fuel present in the oil. Light concentration of carbon/soot present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC	---	---
Sample Date	Client Info		20 Nov 2023	---	---
Machine Age	hrs	Client Info	227798	---	---
Oil Age	hrs	Client Info	4037	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		12	---	---
Iron	ppm	ASTM D5185(m) >127	▲ 141	---	---
Chromium	ppm	ASTM D5185(m) >3	▲ 3	---	---
Nickel	ppm	ASTM D5185(m) >30	3	---	---
Titanium	ppm	ASTM D5185(m) >2	0	---	---
Silver	ppm	ASTM D5185(m) >2	<1	---	---
Aluminum	ppm	ASTM D5185(m) >59	47	---	---
Lead	ppm	ASTM D5185(m) >29	2	---	---
Copper	ppm	ASTM D5185(m) >135	2	---	---
Tin	ppm	ASTM D5185(m) >2	<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) 0	12	---	---
Barium	ppm	ASTM D5185(m) 0	<1	---	---
Molybdenum	ppm	ASTM D5185(m) 60	63	---	---
Manganese	ppm	ASTM D5185(m) 0	<1	---	---
Magnesium	ppm	ASTM D5185(m) 1010	824	---	---
Calcium	ppm	ASTM D5185(m) 1070	935	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	858	---	---
Zinc	ppm	ASTM D5185(m) 1270	1017	---	---
Sulfur	ppm	ASTM D5185(m) 2060	2263	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

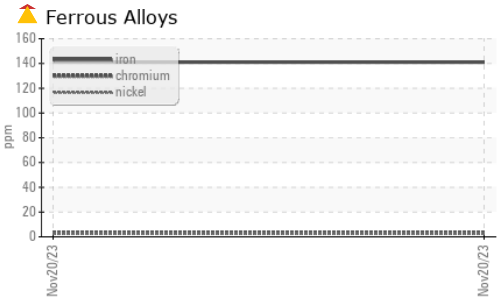
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >18	6	---	---
Sodium	ppm	ASTM D5185(m)	8	---	---
Potassium	ppm	ASTM D5185(m) >20	10	---	---
Fuel	%	ASTM D7593* >2.0	● 8.1	---	---
Glycol	%	ASTM D7922*	0.0	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	▲ 3.5	---	---
Nitration	Abs/cm	ASTM D7624* >20	13.4	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	27.0	---	---



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FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation Abs./1mm	ASTM D7414* >25	19.4	---	---

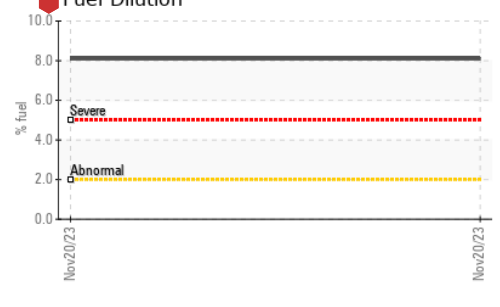
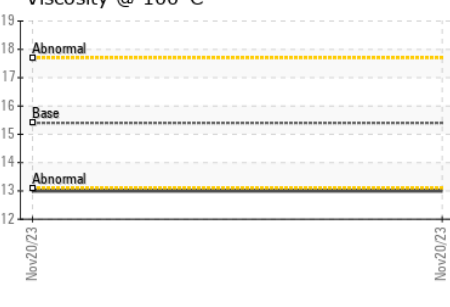
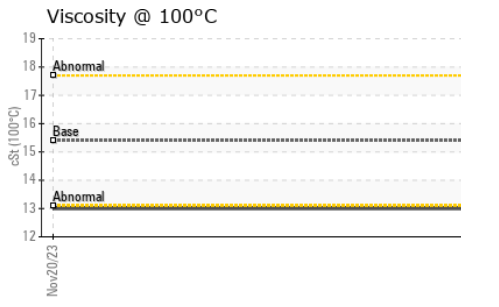
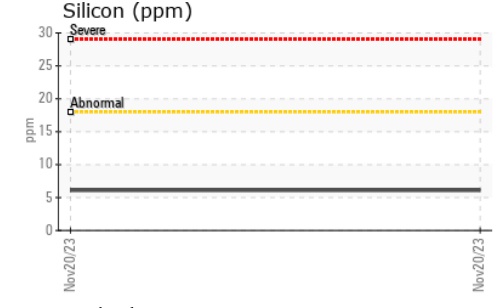
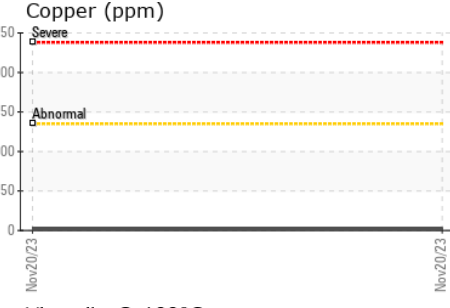
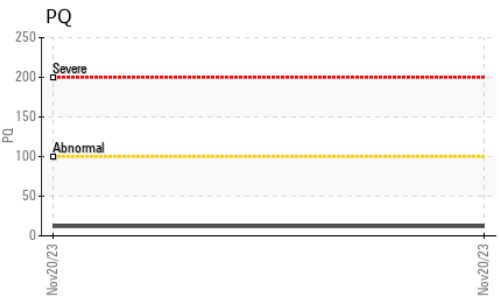
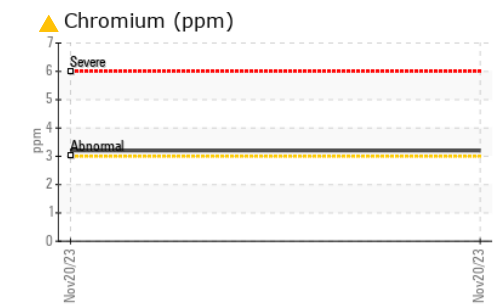
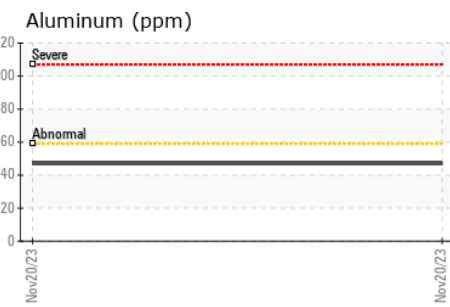
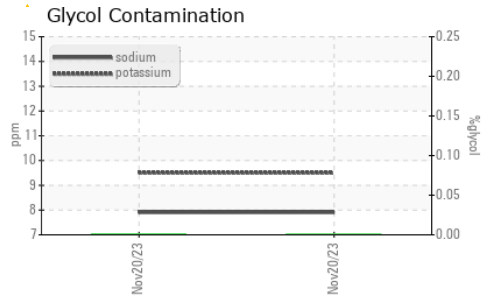
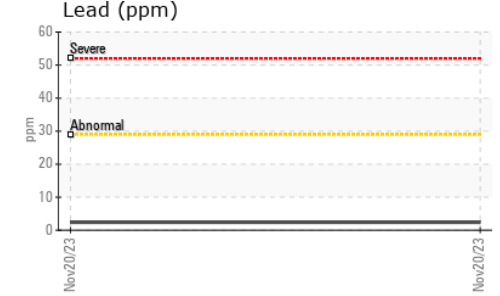
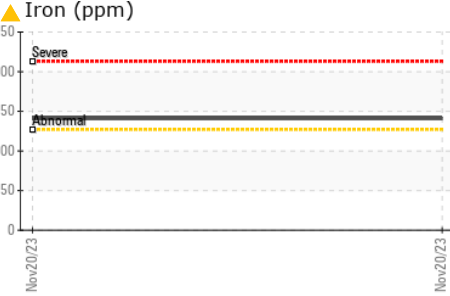
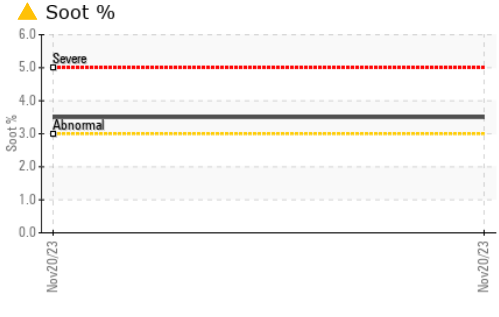
VISUAL

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) 15.4	13.0	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC **Received** : 08 Dec 2023
Lab Number : 02601816 **Diagnosed** : 11 Dec 2023
Unique Number : 5694901 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, PQ)

ICSB906 - Midland
 2A-999 William Street
 Midland, ON
 CA L4R 5E3
 Contact: Service Manager

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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F: