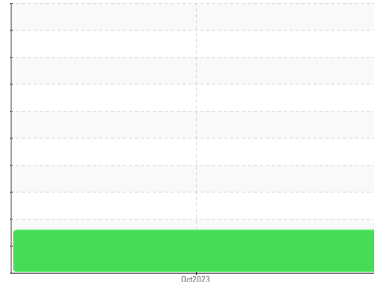


Area
SHARP BUS LINES
Machine Id
INTERNATIONAL 1096
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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 a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0081566	---	---
Sample Date	Client Info	04 Oct 2023	---	---
Machine Age	kms Client Info	186469	---	---
Oil Age	kms Client Info	8020	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >127	12	---	---
Chromium ppm	ASTM D5185(m) >3	0	---	---
Nickel ppm	ASTM D5185(m) >30	<1	---	---
Titanium ppm	ASTM D5185(m) >2	0	---	---
Silver ppm	ASTM D5185(m) >2	<1	---	---
Aluminum ppm	ASTM D5185(m) >59	4	---	---
Lead ppm	ASTM D5185(m) >29	0	---	---
Copper ppm	ASTM D5185(m) >135	<1	---	---
Tin ppm	ASTM D5185(m) >2	0	---	---
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	3	---	---
Barium ppm	ASTM D5185(m) 0	<1	---	---
Molybdenum ppm	ASTM D5185(m) 60	61	---	---
Manganese ppm	ASTM D5185(m) 0	0	---	---
Magnesium ppm	ASTM D5185(m) 1010	968	---	---
Calcium ppm	ASTM D5185(m) 1070	1033	---	---
Phosphorus ppm	ASTM D5185(m) 1150	1004	---	---
Zinc ppm	ASTM D5185(m) 1270	1164	---	---
Sulfur ppm	ASTM D5185(m) 2060	2633	---	---
Lithium ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >18	10	---	---
Sodium ppm	ASTM D5185(m)	4	---	---
Potassium ppm	ASTM D5185(m) >20	6	---	---
Fuel %	ASTM D7593* >2.0	▲ 2.5	---	---

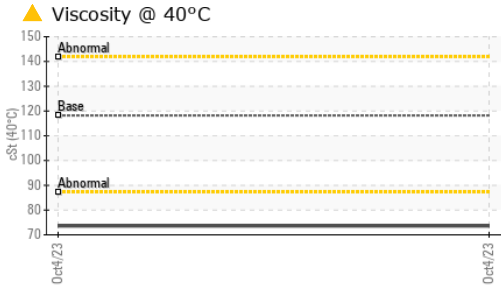
INFRA-RED

method	limit/base	current	history1	history2
Soot %	ASTM D7844* >3	0.2	---	---
Nitration Abs/cm	ASTM D7624* >20	6.2	---	---
Sulfation Abs/.1mm	ASTM D7415* >30	18.7	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm	ASTM D7414* >25	14.5	---	---

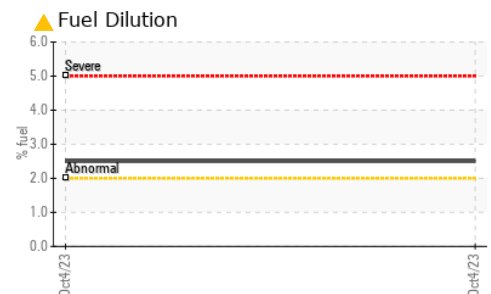
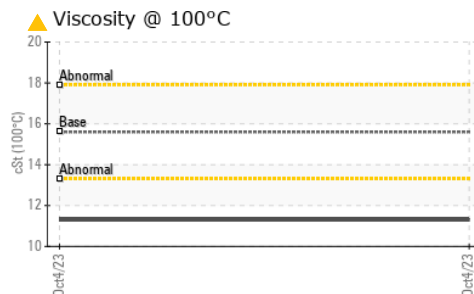
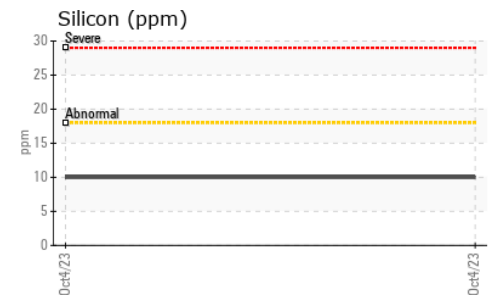
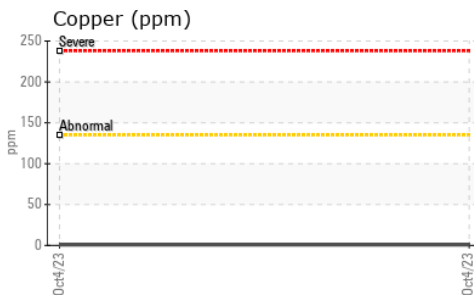
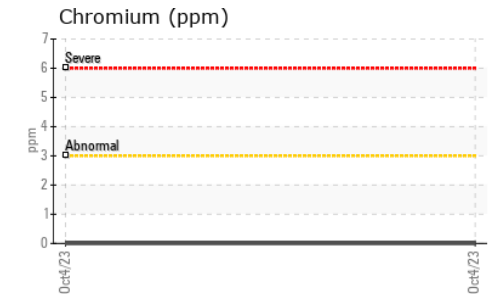
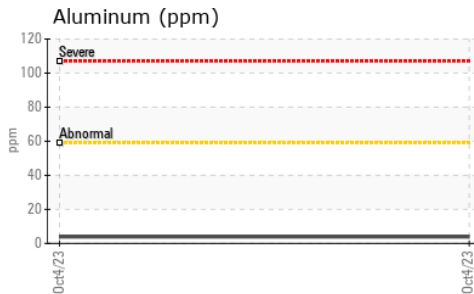
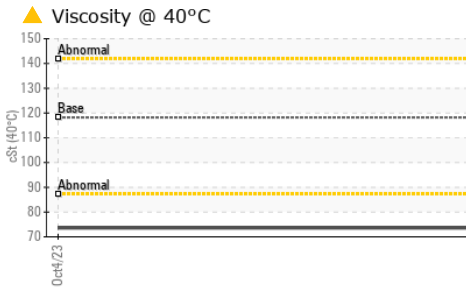
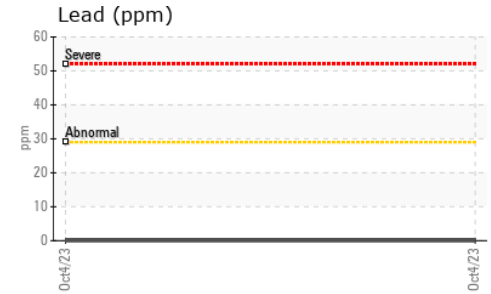
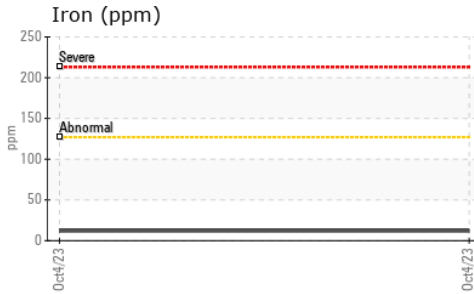
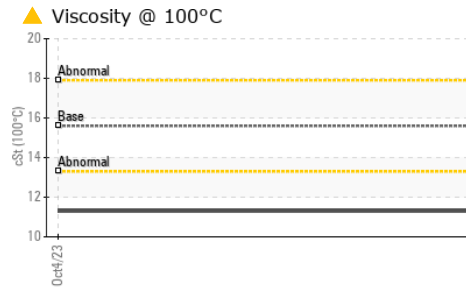
OIL ANALYSIS REPORT



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 @ 40°C	cSt	ASTM D7279(m)	118.2	▲ 73.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ 11.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	145	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081566 **Received** : 13 Oct 2023
Lab Number : 02588827 **Diagnosed** : 16 Oct 2023
Unique Number : 5657893 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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 567 Oak Park Rd.
 Brantford, ON
 CA N3T 5L8
 Contact: Doug Hall
 Djhall@sharpbus.com
 T: (519)751-3434
 F:

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.