



Machine Id
INTERNATIONAL NO UNIT PC0081512

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
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	PC0081512	---	---
Sample Date	Client Info	22 Sep 2023	---	---
Machine Age	kms Client Info	186213	---	---
Oil Age	kms Client Info	1000	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	>100	50	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>4	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	13	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	2	---	---
Tin	ppm	ASTM D5185(m)	>15	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	1	---	---
Barium	ppm	ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	60	62	---	---
Manganese	ppm	ASTM D5185(m)	0	0	---	---
Magnesium	ppm	ASTM D5185(m)	1010	979	---	---
Calcium	ppm	ASTM D5185(m)	1070	1044	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	980	---	---
Zinc	ppm	ASTM D5185(m)	1270	1211	---	---
Sulfur	ppm	ASTM D5185(m)	2060	2545	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>25	4	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Potassium	ppm	ASTM D5185(m)	>20	6	---	---
Fuel	%	ASTM D7593*	>2.0	▲ 3	---	---
Glycol	%	ASTM D7922*		0.0	---	---

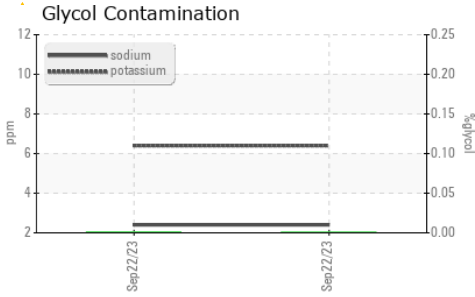
INFRA-RED method limit/base current history1 history2

Soot %	%	ASTM D7844*	>3	0.6	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.0	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	---	---

FLUID DEGRADATION method limit/base current history1 history2

Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	---	---
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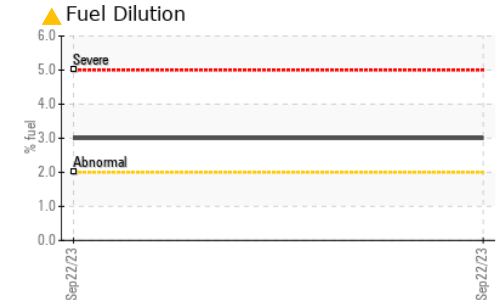
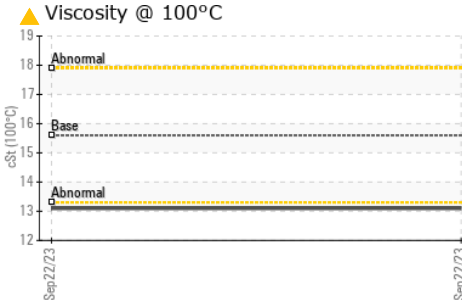
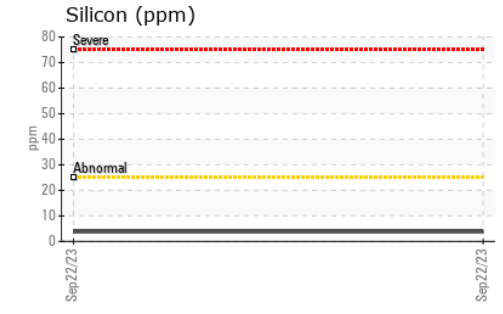
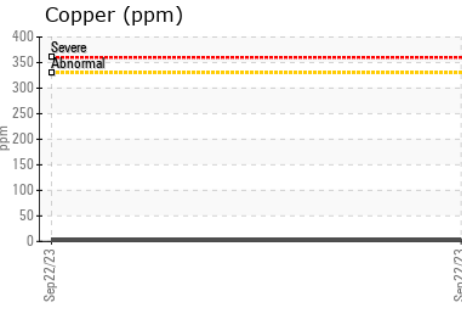
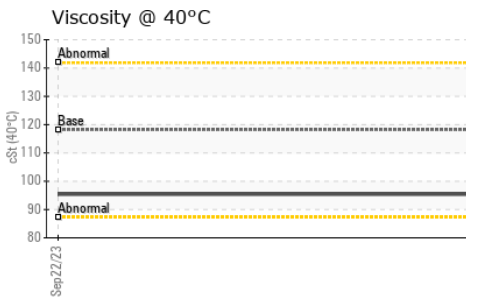
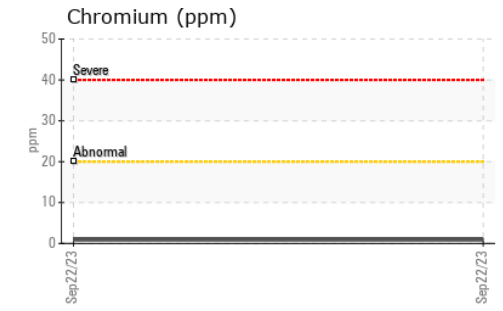
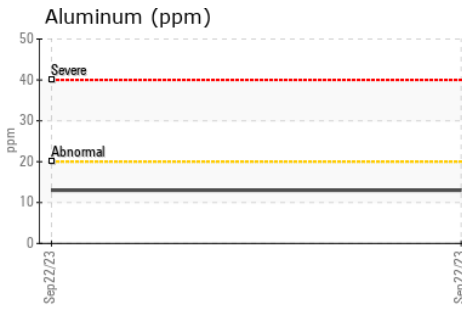
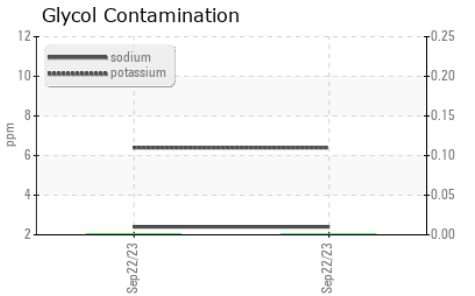
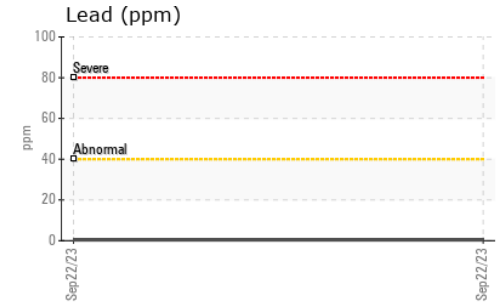
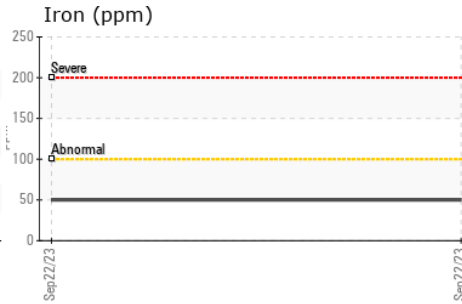
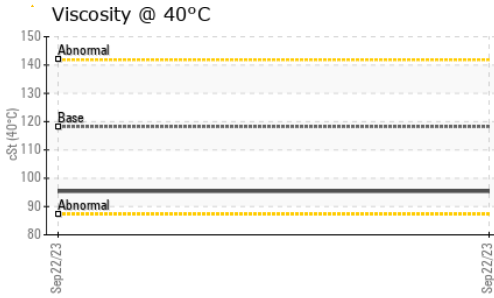
OIL ANALYSIS REPORT



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	95.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ 13.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	135	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081512 **Received** : 02 Oct 2023
Lab Number : 02586019 **Diagnosed** : 03 Oct 2023
Unique Number : 5655085 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI)

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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