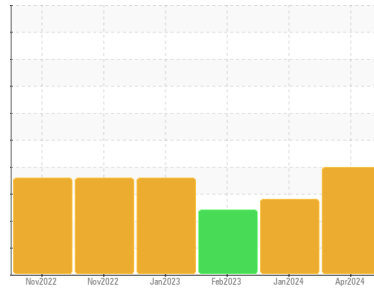


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

730

Component

Diesel Engine

Fluid

PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The BN level is low. 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	PCA0118133	PCA0096407	PCA0066366
Sample Date	Client Info	18 Apr 2024	31 Jan 2024	06 Feb 2023
Machine Age	hrs	14826	14042	10683
Oil Age	hrs	784	500	186
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		SEVERE	SEVERE	SEVERE

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	25	10	4
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	1	2	<1
Lead	ppm ASTM D5185m >40	0	<1	<1
Copper	ppm ASTM D5185m >330	0	2	<1
Tin	ppm ASTM D5185m >15	0	<1	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	7	2
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	34	40	49
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	566	606	794
Calcium	ppm ASTM D5185m	643	749	928
Phosphorus	ppm ASTM D5185m	591	712	859
Zinc	ppm ASTM D5185m	750	823	1028
Sulfur	ppm ASTM D5185m	2083	1935	3088

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	5	4
Sodium	ppm ASTM D5185m	1	3	2
Potassium	ppm ASTM D5185m >20	0	2	<1
Fuel	% ASTM D3524 >5	▲ 42.0	▲ 30.7	▲ 17.7

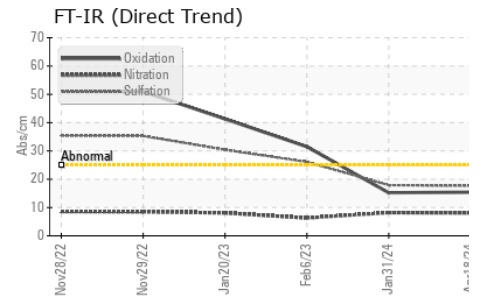
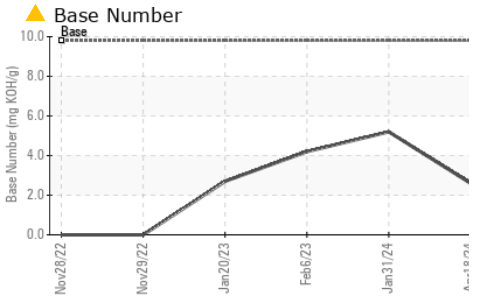
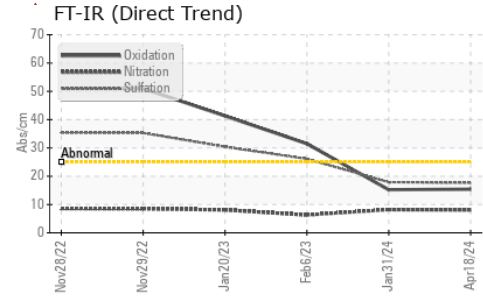
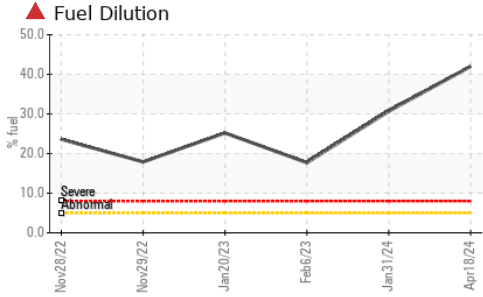
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.2	0.2	0.1
Nitration	Abs/cm *ASTM D7624 >20	8.1	8.2	6.3
Sulfation	Abs/.1mm *ASTM D7415 >30	17.6	17.9	26.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.4	15.2	31.5
Base Number (BN)	mg KOH/g ASTM D2896 9.8	▲ 2.6	5.2	4.2

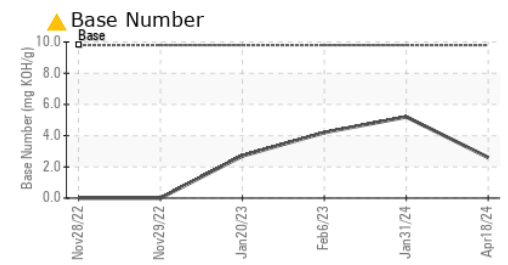
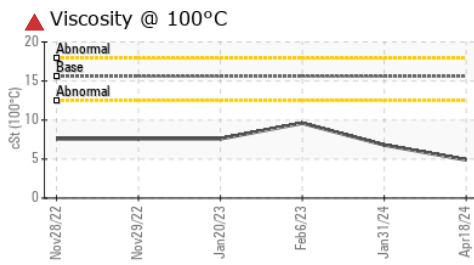
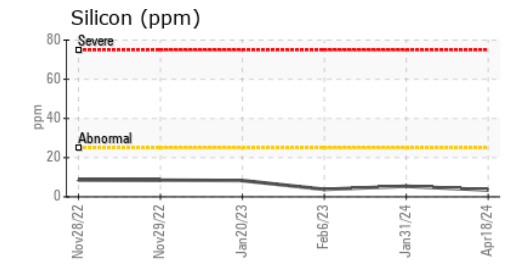
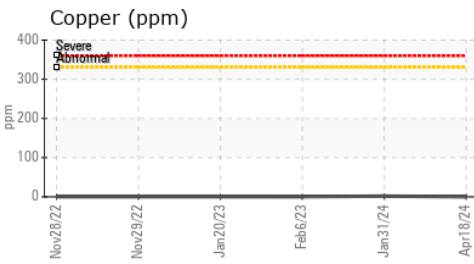
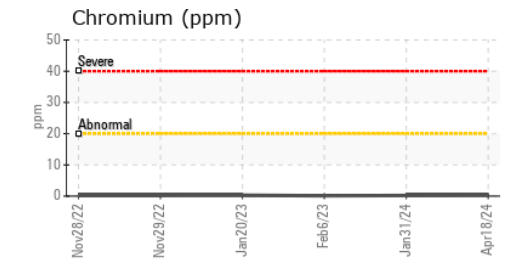
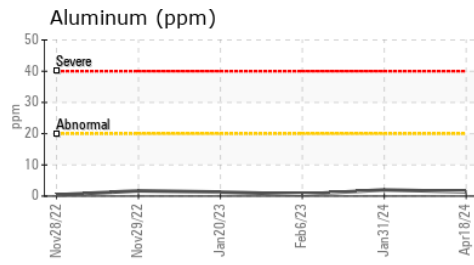
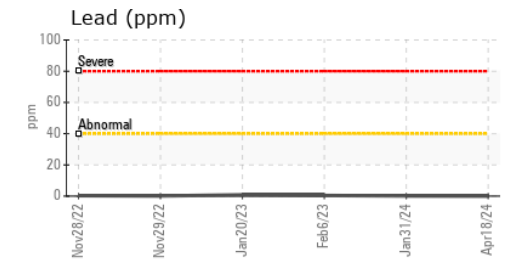
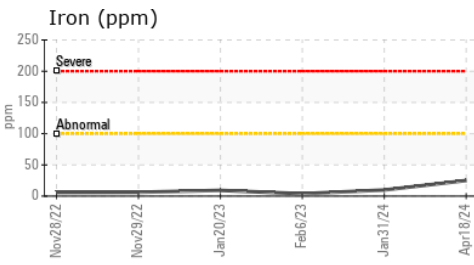
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 4.9	▲ 6.8	▲ 9.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118133 **Received** : 24 Apr 2024
Lab Number : 06159640 **Tested** : 25 Apr 2024
Unique Number : 10995063 **Diagnosed** : 26 Apr 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

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 T: (209)630-8094
 F:
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)