



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 122-1800
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0072684	PC0072391	PC0066120
Sample Date		Client Info		10 Jan 2024	04 Sep 2023	06 Dec 2022
Machine Age	kms	Client Info		282905	259969	233392
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	16	35	23
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	1	1	2
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

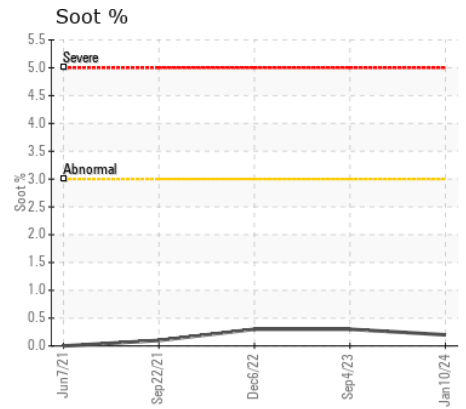
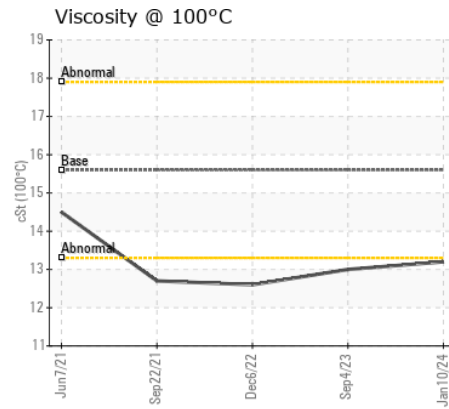
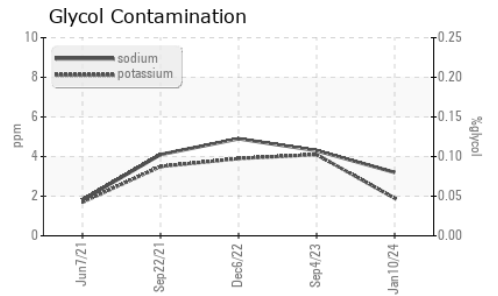
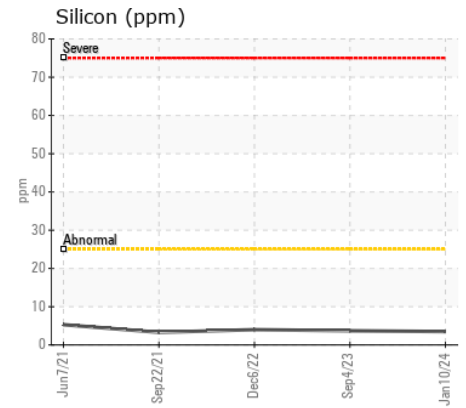
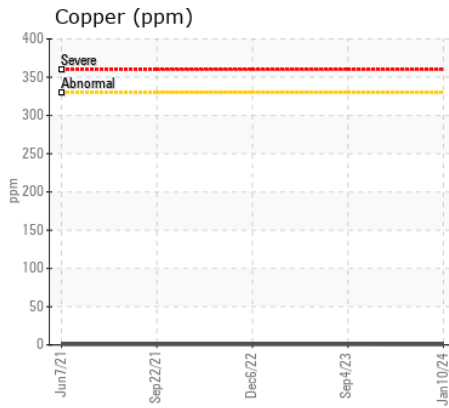
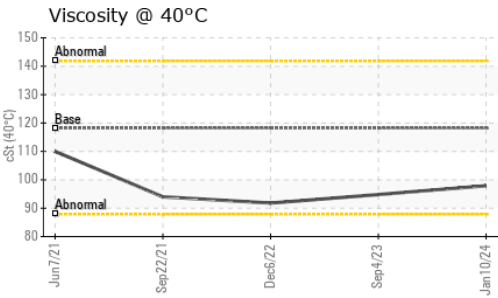
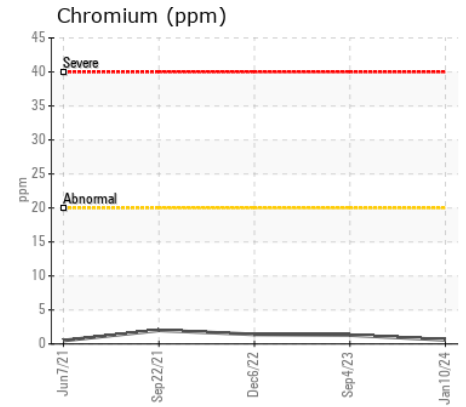
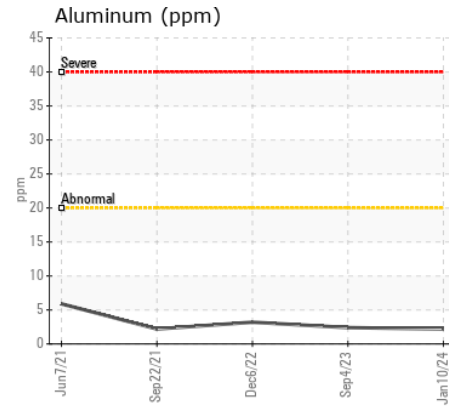
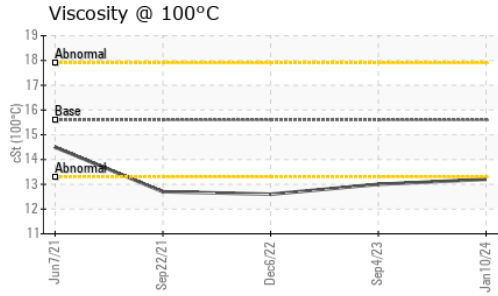
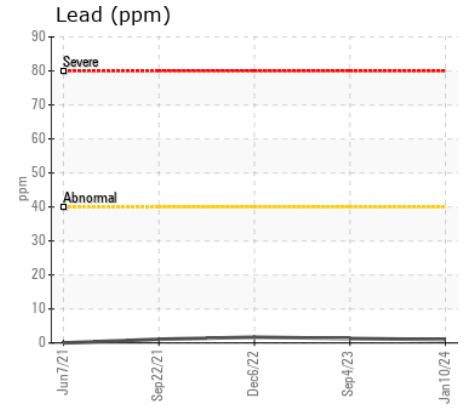
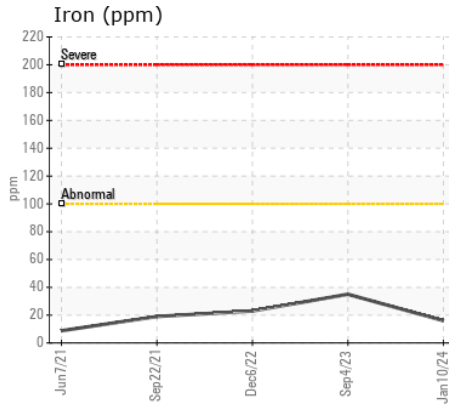
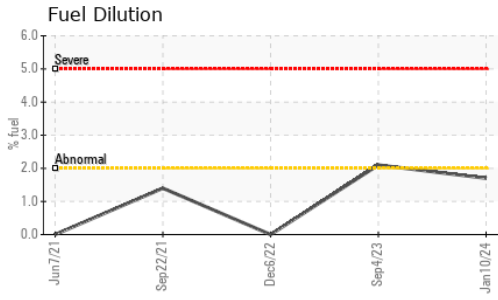
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	4
Potassium	ppm	ASTM D5185(m)	>20	2	4	4
Fuel	%	ASTM D7593*	>2.0	1.7	▲ 2.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	8.8	9.9	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	21.5	22.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	4	5
Boron	ppm	ASTM D5185(m)	0	<1	5	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	60	61
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	987	965	991
Calcium	ppm	ASTM D5185(m)	1070	1079	1114	1140
Phosphorus	ppm	ASTM D5185(m)	1150	1057	1077	1111
Zinc	ppm	ASTM D5185(m)	1270	1213	1209	1233
Sulfur	ppm	ASTM D5185(m)	2060	2712	2541	2578
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	16.2	18.0
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	97.9	94.8	91.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.2	▲ 13.0	12.6
Viscosity Index (VI)	Scale	ASTM D2270*	139	133	134	133



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0072684 **Received** : 12 Jan 2024
Lab Number : 02608369 **Diagnosed** : 15 Jan 2024
Unique Number : 5709455 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, PercentFuel, VI)

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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.