



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
0149
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

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.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

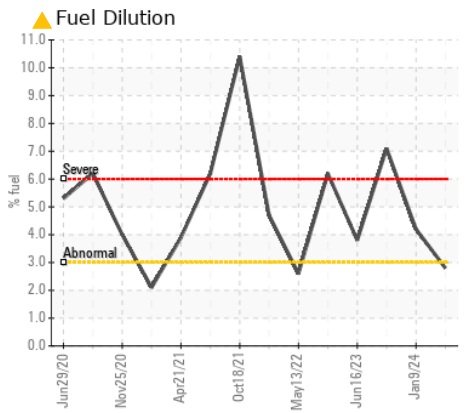
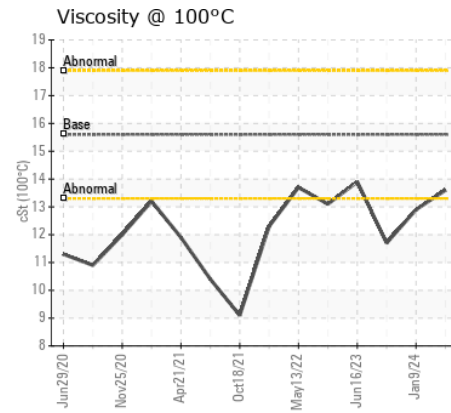
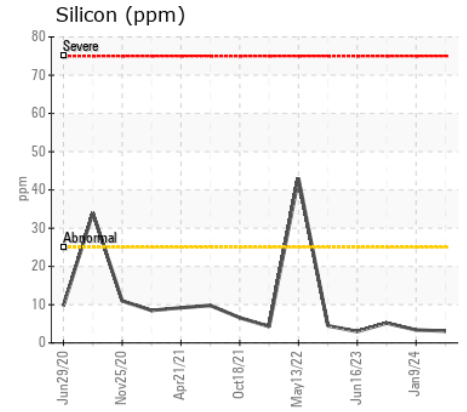
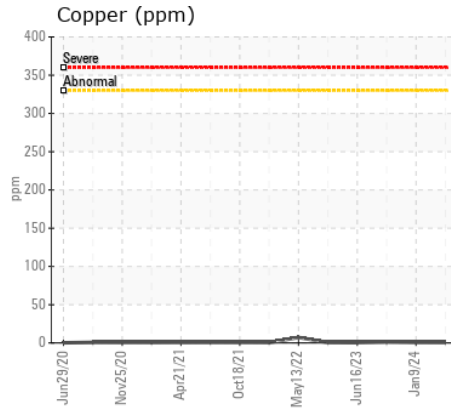
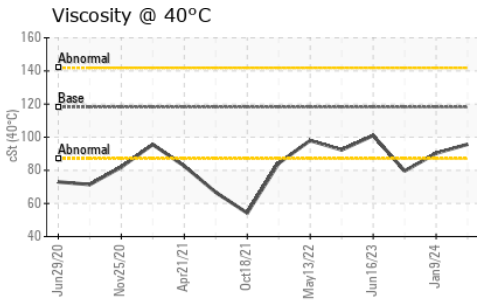
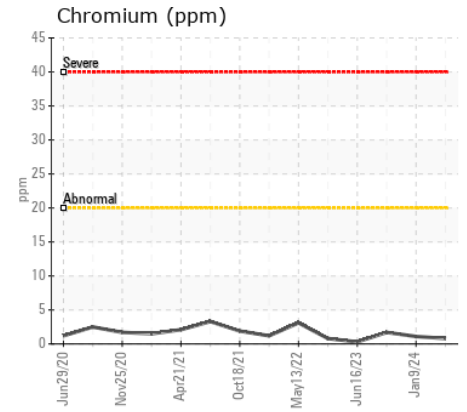
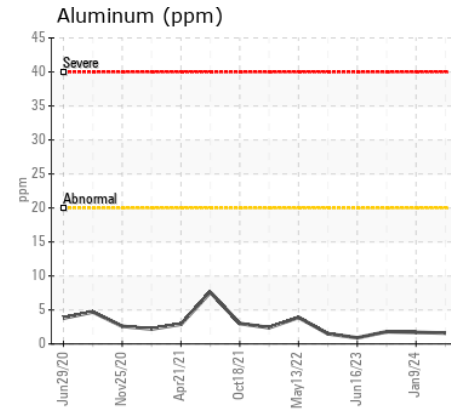
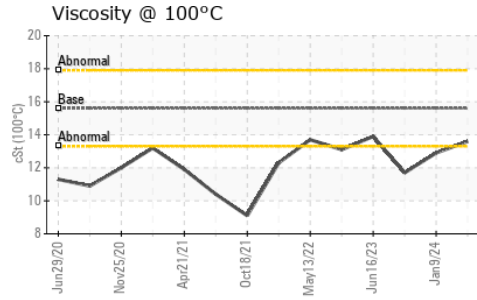
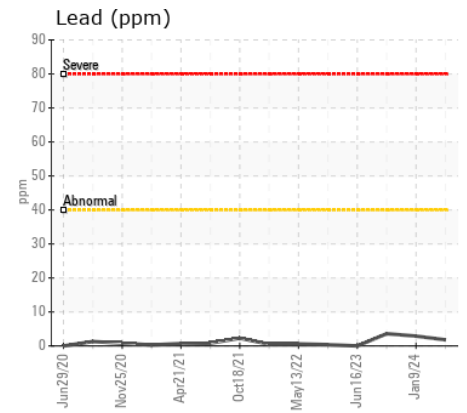
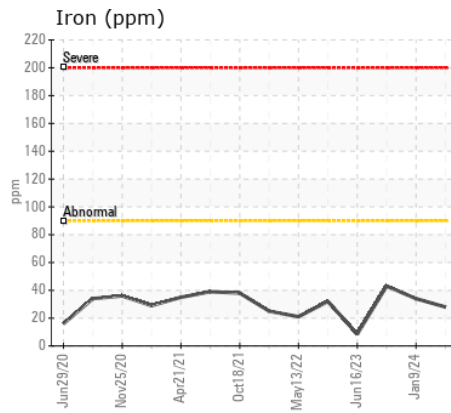
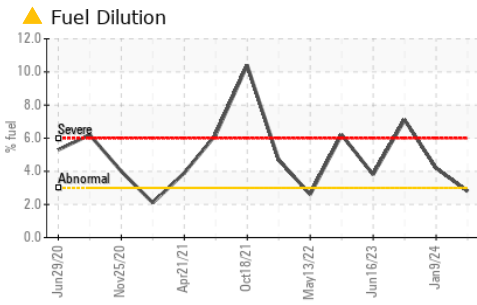
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082733	PC0080274	PC0032180
Sample Date		Client Info		07 Feb 2024	09 Jan 2024	27 Sep 2023
Machine Age	kms	Client Info		1144286	1134123	1121273
Oil Age	kms	Client Info		9829	12778	13575
Filter Age	kms	Client Info		9829	12778	13575
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	SEVERE

Iron	ppm	ASTM D5185(m)	>90	28	34	43
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	2	3	4
Copper	ppm	ASTM D5185(m)	>330	<1	<1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

Silicon	ppm	ASTM D5185(m)	>25	3	3	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
Fuel	%	ASTM D7593*	>3.0	▲ 2.8	▲ 4.2	◆ 7.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.4	0.5	0.6
Nitration	Abs/cm	ASTM D7624*	>20	7.5	8.1	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	20.4	21.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)		4	5	6
Boron	ppm	ASTM D5185(m)	0	5	4	16
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	60	58	49
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	990	951	766
Calcium	ppm	ASTM D5185(m)	1070	1142	1109	1291
Phosphorus	ppm	ASTM D5185(m)	1150	1000	980	924
Zinc	ppm	ASTM D5185(m)	1270	1201	1205	1163
Sulfur	ppm	ASTM D5185(m)	2060	2574	2444	2260
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.6	16.4	16.7
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	95.7	90.3	▲ 79.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.6	▲ 12.9	▲ 11.7
Viscosity Index (VI)	Scale	ASTM D2270*	139	143	140	139



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082733 **Received** : 23 Feb 2024
Lab Number : 02617606 **Tested** : 26 Feb 2024
Unique Number : 5734716 **Diagnosed** : 26 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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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