



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1312
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: Oil interval over by 404 km)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081599	PC0080276	PC0032174
Sample Date		Client Info		15 Feb 2024	09 Jan 2024	26 Sep 2023
Machine Age	kms	Client Info		668846	656153	642127
Oil Age	kms	Client Info		12404	14076	13893
Filter Age	kms	Client Info		12404	14076	13893
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	46	53	51
Chromium	ppm	ASTM D5185(m)	>20	2	2	3
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	4
Lead	ppm	ASTM D5185(m)	>40	<1	1	2
Copper	ppm	ASTM D5185(m)	>330	4	5	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

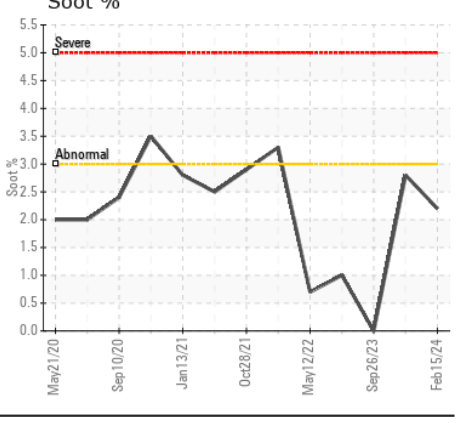
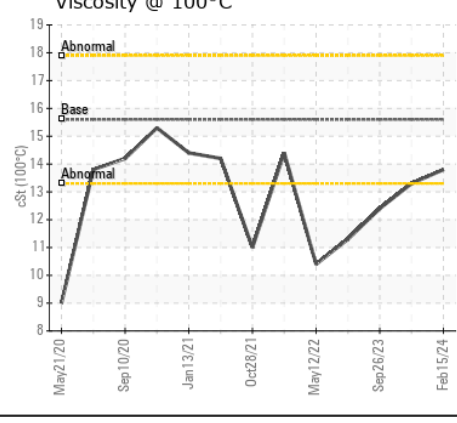
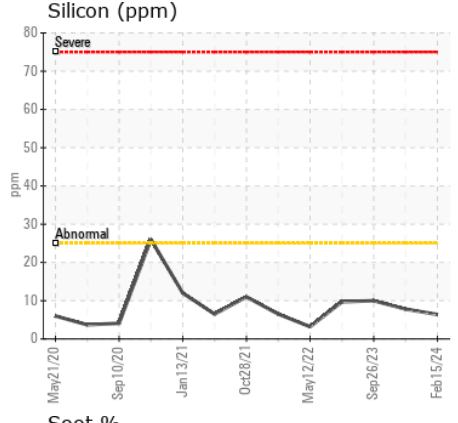
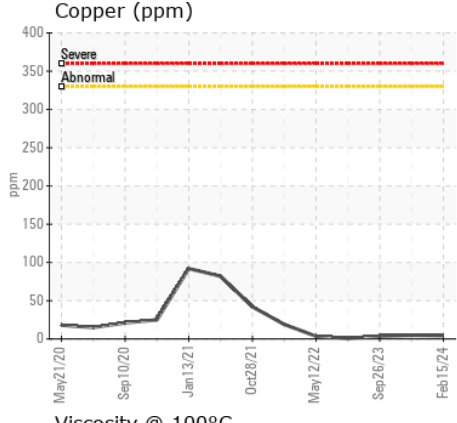
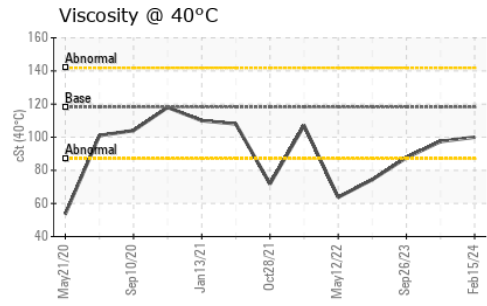
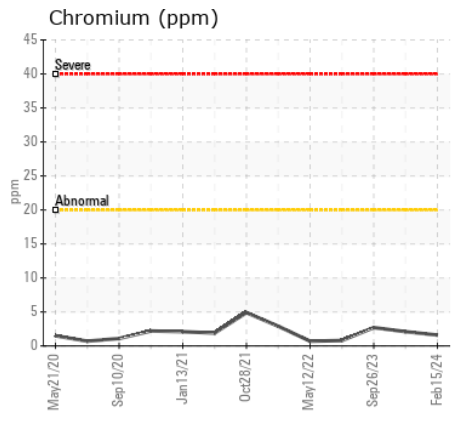
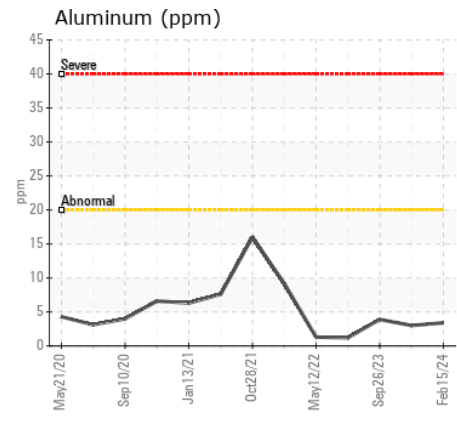
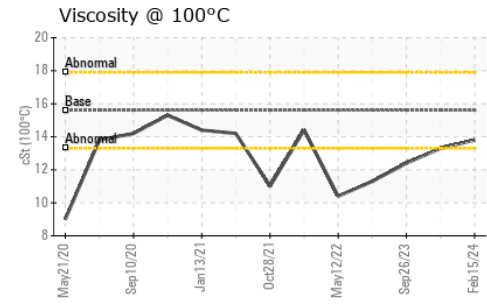
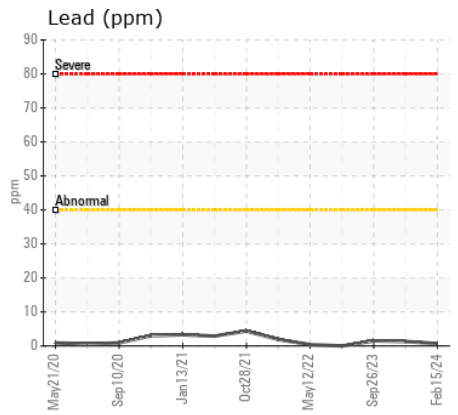
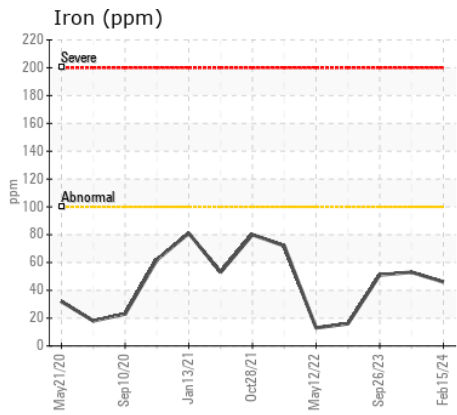
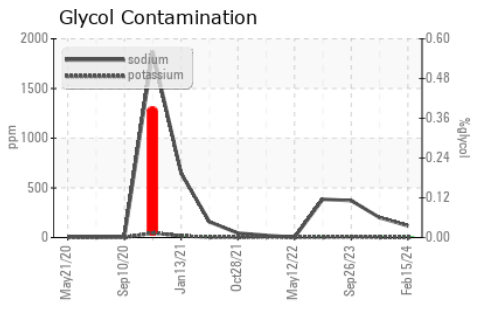
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	8	10
Potassium	ppm	ASTM D5185(m)	>20	1	2	6
Fuel		WC Method	>5	<1.0	1.7	▲ 4.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	2.2	2.8	0
Nitration	Abs/cm	ASTM D7624*	>20	11.5	12.6	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	27.1	17.1
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)		119	▲ 201	▲ 372
Boron	ppm	ASTM D5185(m)	0	3	5	11
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	64	65	67
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	978	948	854
Calcium	ppm	ASTM D5185(m)	1070	1117	1135	1133
Phosphorus	ppm	ASTM D5185(m)	1150	1033	1034	970
Zinc	ppm	ASTM D5185(m)	1270	1217	1232	1175
Sulfur	ppm	ASTM D5185(m)	2060	2610	2610	2474
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	18.8	11.0
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	100	97.4	87.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.8	13.3	12.4
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	135	137



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081599 **Received** : 23 Feb 2024
Lab Number : 02617586 **Tested** : 23 Feb 2024
Unique Number : 5734696 **Diagnosed** : 26 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, 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.