



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Loader
Machine Id
SRF0110
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (37 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0074863	PC0074874	PC0047174
Sample Date		Client Info		14 Feb 2024	21 Nov 2023	23 Oct 2023
Machine Age	hrs	Client Info		30232	28756	28318
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	17	11	8
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	1	2	3
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	4	4	5
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

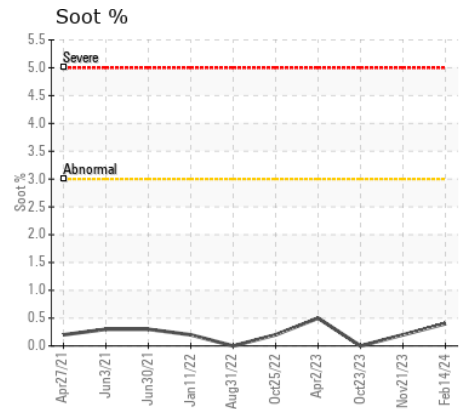
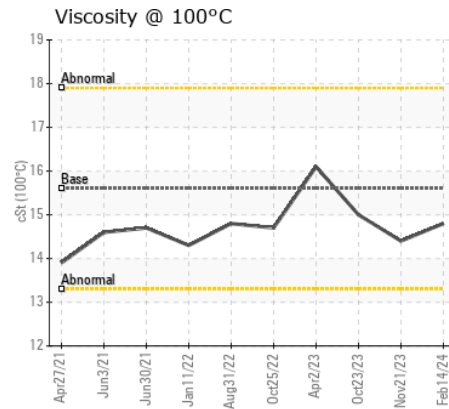
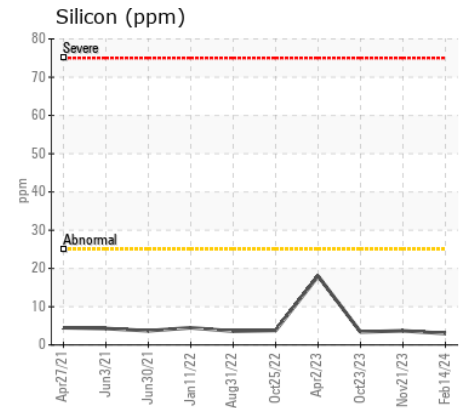
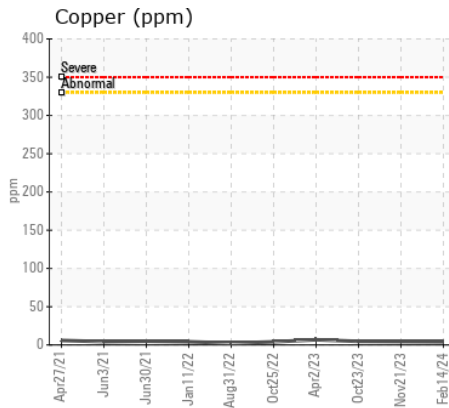
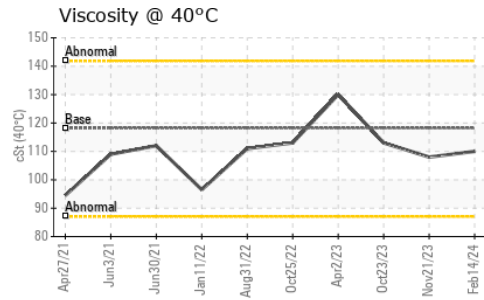
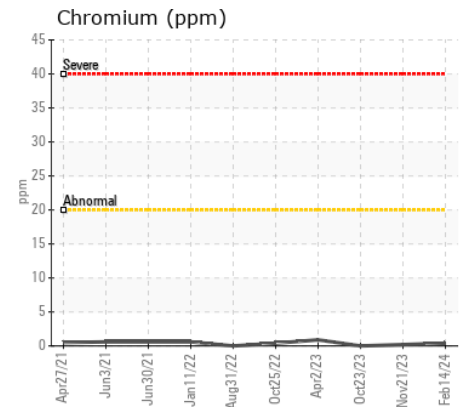
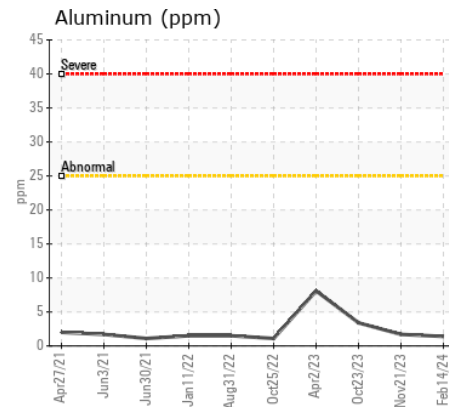
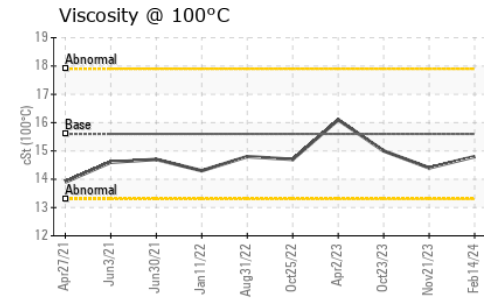
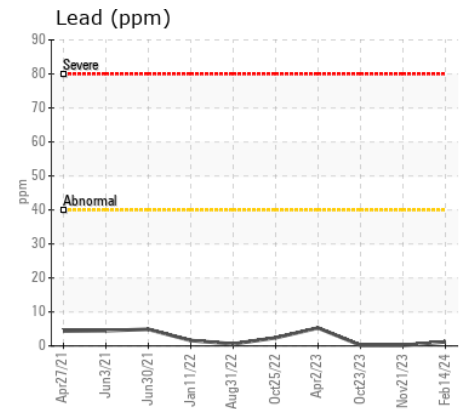
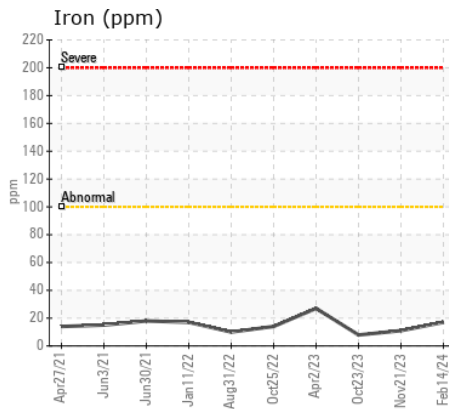
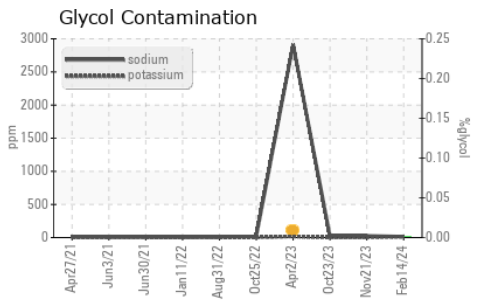
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Potassium	ppm	ASTM D5185(m)	>20	9	<1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	10.6	8.3	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	19.8	19.0
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)		15	27	27
Boron	ppm	ASTM D5185(m)	0	2	2	1
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	65	64	63
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1029	987	977
Calcium	ppm	ASTM D5185(m)	1070	1196	1093	1007
Phosphorus	ppm	ASTM D5185(m)	1150	1106	1043	1064
Zinc	ppm	ASTM D5185(m)	1270	1303	1255	1217
Sulfur	ppm	ASTM D5185(m)	2060	2827	2652	2644
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.7	16.3	14.2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	110	108	113
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.8	14.4	15.0
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	136	137



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074863 **Received** : 04 Mar 2024
Lab Number : 02619517 **Tested** : 04 Mar 2024
Unique Number : 5736627 **Diagnosed** : 04 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)

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 CA
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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.