

Machine Id
0859
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Note: oil and filter changed at approx. 150% service interval.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082732	PC0031845	PC0018599
Sample Date		Client Info		09 Feb 2024	13 Sep 2023	06 Jul 2023
Machine Age	kms	Client Info		881885	857562	842841
Oil Age	kms	Client Info		17744	14721	16230
Filter Age	kms	Client Info		17744	14721	16230
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	57	84	69
Chromium	ppm	ASTM D5185(m)	>20	3	4	4
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	11	7	12
Lead	ppm	ASTM D5185(m)	>40	4	7	4
Copper	ppm	ASTM D5185(m)	>330	4	4	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

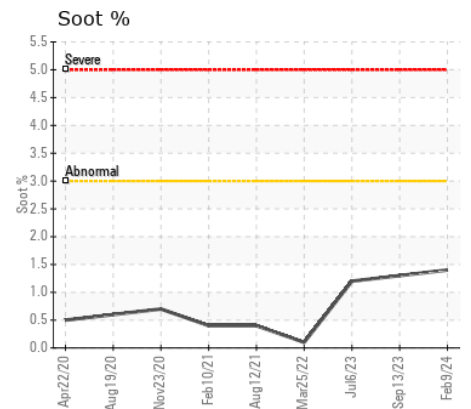
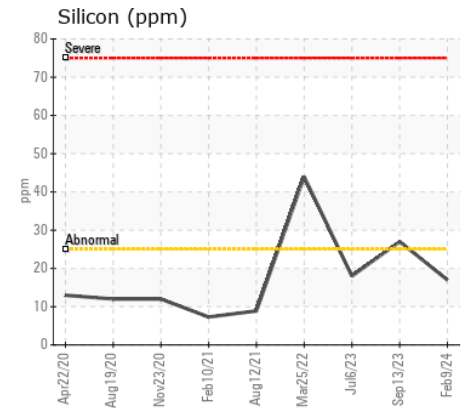
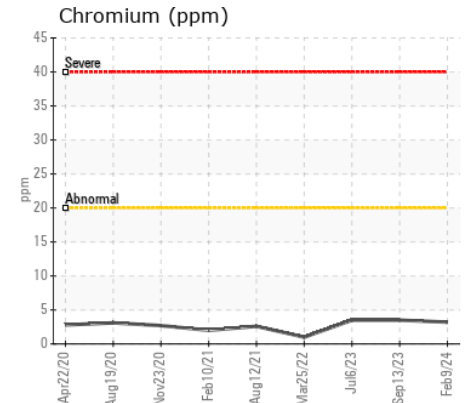
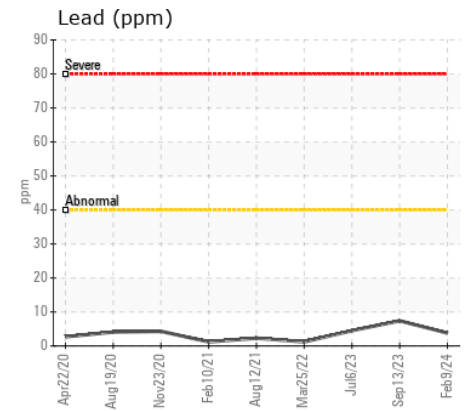
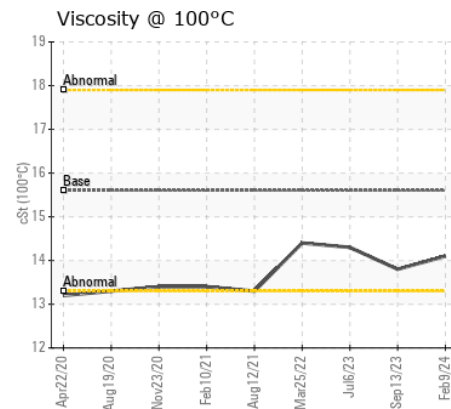
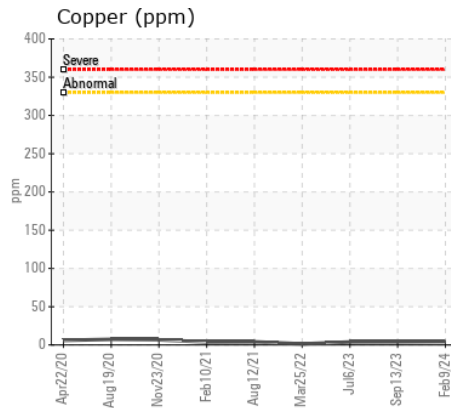
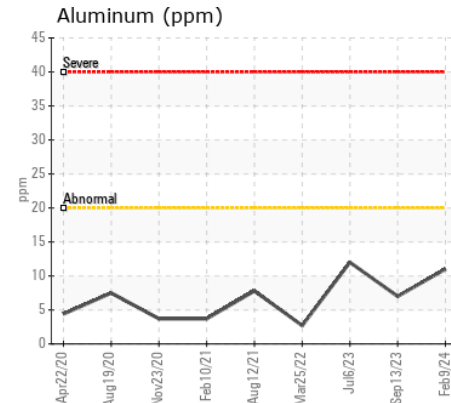
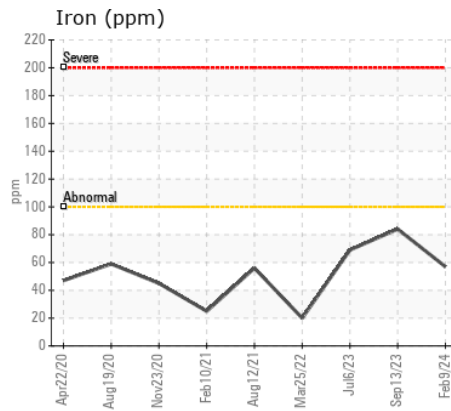
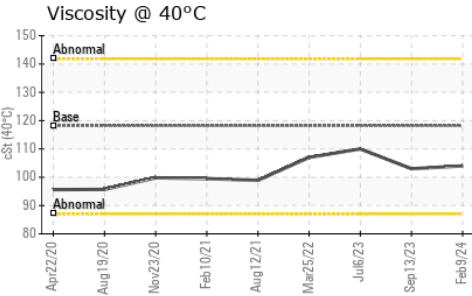
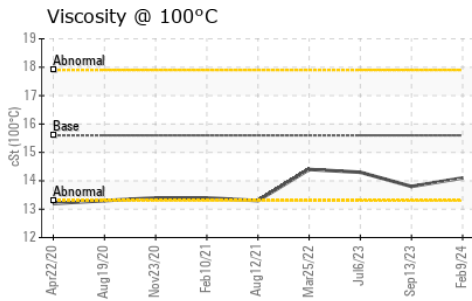
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	17	▲ 27	18
Potassium	ppm	ASTM D5185(m)	>20	1	4	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	1.4	1.3	1.2
Nitration	Abs/cm	ASTM D7624*	>20	11.3	13.0	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	25.6	27.8
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		66	▲ 611	30
Boron	ppm	ASTM D5185(m)	0	6	22	44
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	66	73	19
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1040	864	282
Calcium	ppm	ASTM D5185(m)	1070	1200	1346	2019
Phosphorus	ppm	ASTM D5185(m)	1150	1083	1039	1079
Zinc	ppm	ASTM D5185(m)	1270	1248	1271	1260
Sulfur	ppm	ASTM D5185(m)	2060	2653	2451	2783
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	20.6	21.8
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	104	103	110
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.1	13.8	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	137	134	132



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082732
Lab Number : 02617602
Unique Number : 5734712
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 23 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 23 Feb 2024 - Kevin Marson

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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