



Machine Id
14184
Component
Front Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083048	PC0071886	PC0067398
Sample Date		Client Info		16 May 2024	09 Nov 2023	06 Apr 2023
Machine Age	hrs	Client Info		0	0	12512
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	4	22	19
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	2	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

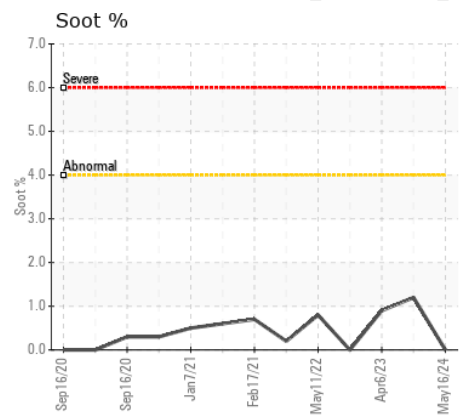
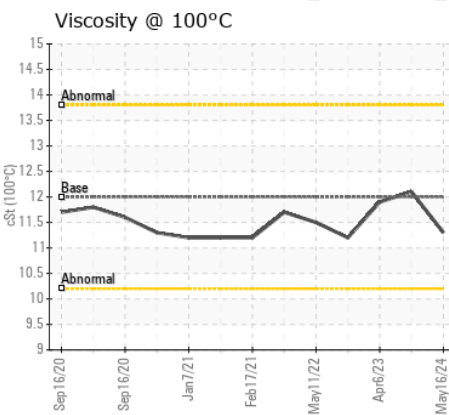
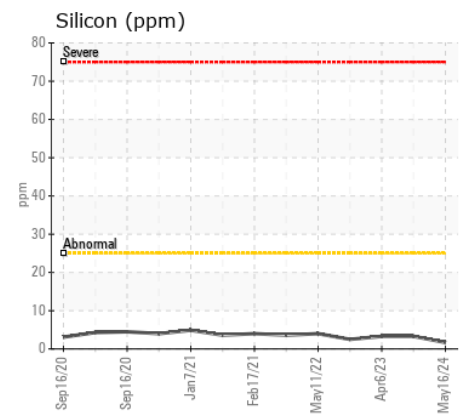
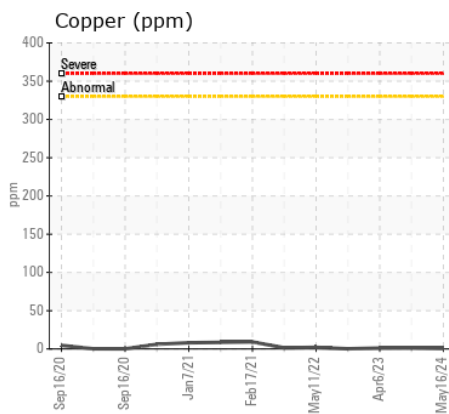
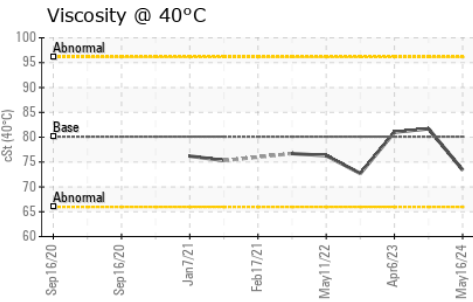
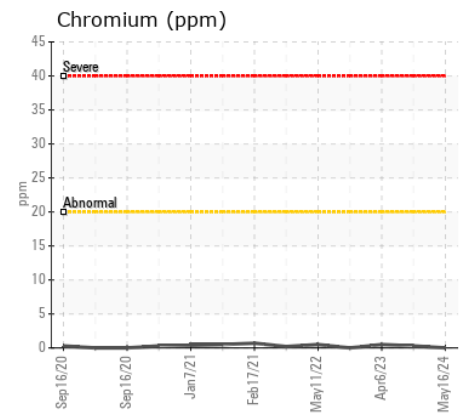
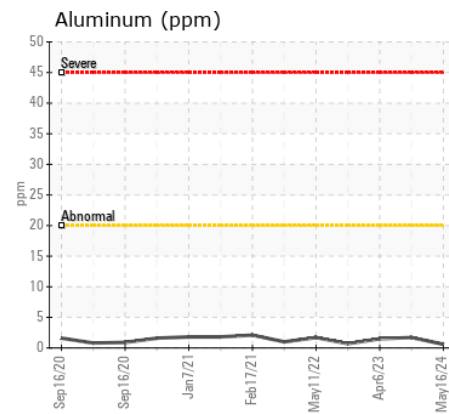
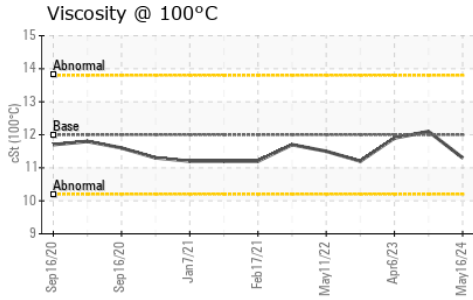
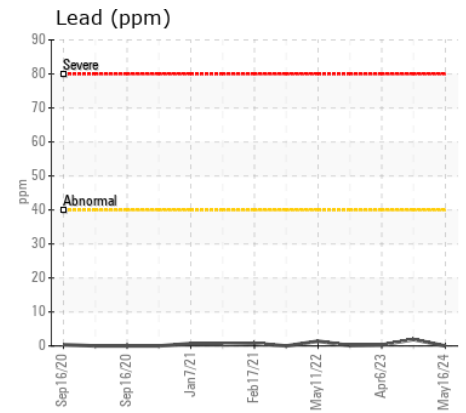
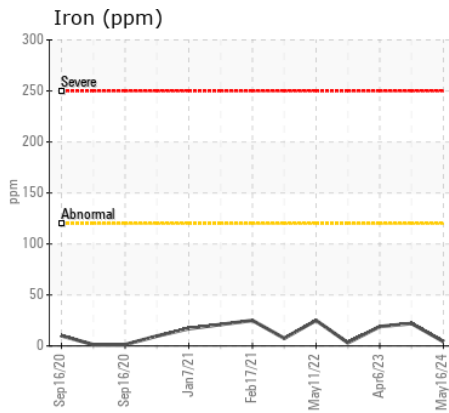
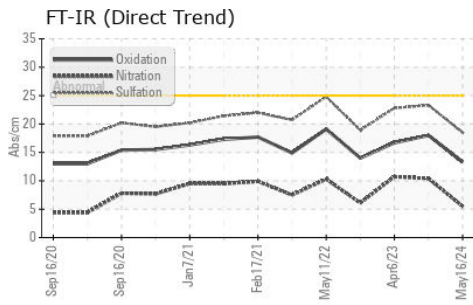
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0	1.2	0.9
Nitration	Abs/cm	ASTM D7624*	>20	5.5	10.4	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	23.3	22.8
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)		5	15	11
Boron	ppm	ASTM D5185(m)	2	12	3	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	57	62	60
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	924	978	978
Calcium	ppm	ASTM D5185(m)	1050	1039	1055	1045
Phosphorus	ppm	ASTM D5185(m)	995	942	983	1030
Zinc	ppm	ASTM D5185(m)	1180	1115	1195	1191
Sulfur	ppm	ASTM D5185(m)	2600	2467	2293	2434
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	18.0	16.7
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	73.4	81.7	81.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	12.1	11.9
Viscosity Index (VI)	Scale	ASTM D2270*	144	145	143	140



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083048 **Received** : 24 May 2024
Lab Number : 02637423 **Tested** : 24 May 2024
Unique Number : 5786585 **Diagnosed** : 24 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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.