



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SOT MARITIME CENTRE [6100284919]

Machine Id
0659734

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020737	WA0016495	---
Sample Date		Client Info		09 Apr 2024	09 Jun 2021	---
Machine Age	hrs	Client Info		726	623	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	3	2	---
Chromium	ppm	ASTM D5185(m)	>11	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>31	<1	<1	---
Lead	ppm	ASTM D5185(m)	>26	0	0	---
Copper	ppm	ASTM D5185(m)	>26	<1	<1	---
Tin	ppm	ASTM D5185(m)	>4	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

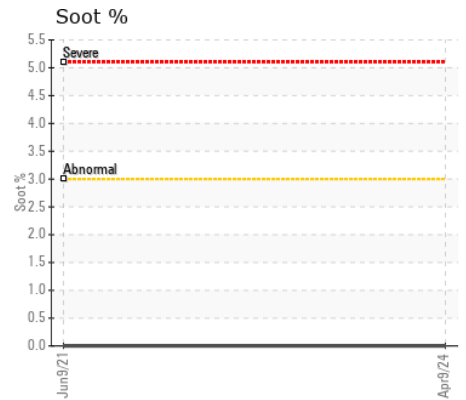
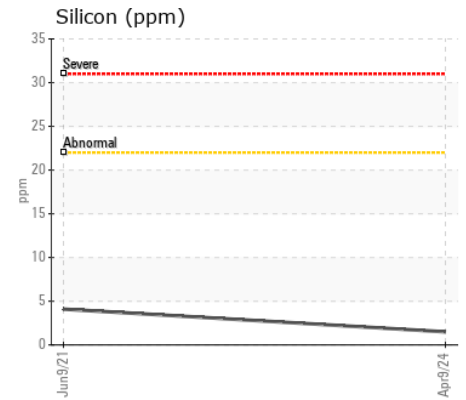
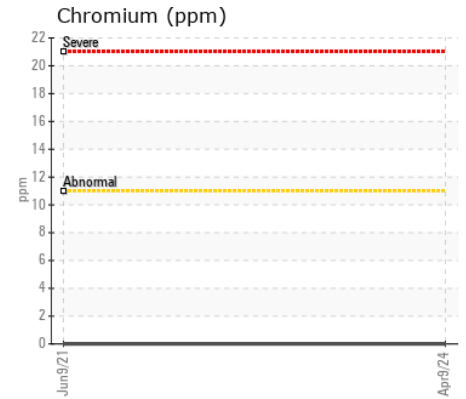
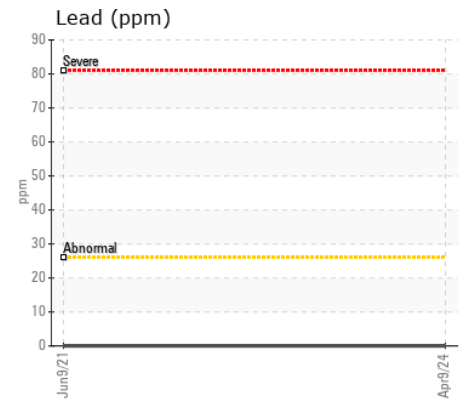
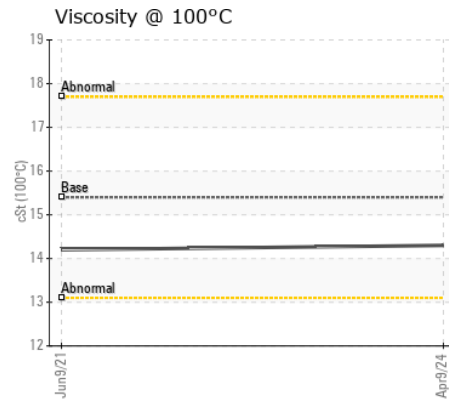
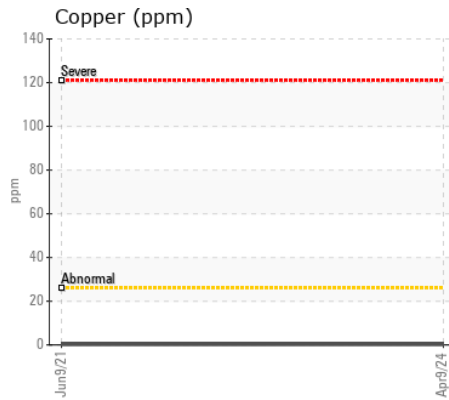
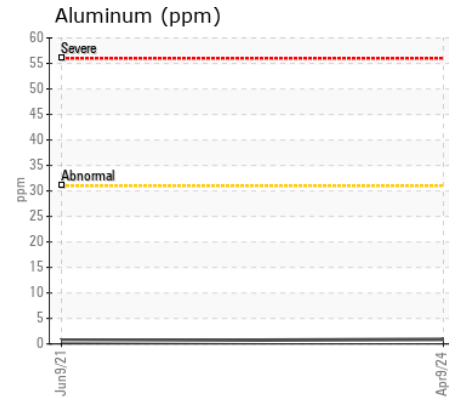
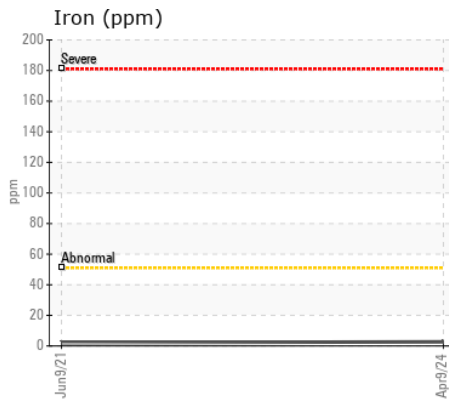
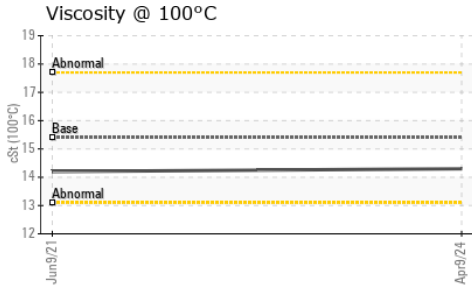
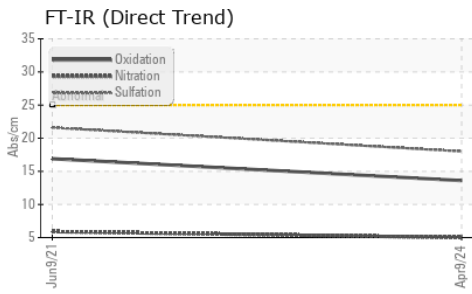
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	7	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.0	5.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	21.6	---
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>31	1	3	---
Boron	ppm	ASTM D5185(m)	0	2	185	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	58	<1	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	957	11	---
Calcium	ppm	ASTM D5185(m)	1070	1012	2108	---
Phosphorus	ppm	ASTM D5185(m)	1150	1015	957	---
Zinc	ppm	ASTM D5185(m)	1270	1160	1137	---
Sulfur	ppm	ASTM D5185(m)	2060	2577	3048	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	16.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020737 **Received** : 16 Apr 2024
Lab Number : 02629107 **Tested** : 16 Apr 2024
Unique Number : 5762239 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOB 1

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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