



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[6100298878]

Machine Id

234241

Component

Diesel Engine

Fluid

PETRO CANADA DURON SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021457	WA0020198	WA0018315
Sample Date		Client Info		20 Jun 2024	06 Jul 2023	05 Jul 2022
Machine Age	hrs	Client Info		455	440	357
Oil Age	hrs	Client Info		0	60	25
Filter Age	hrs	Client Info		0	60	25
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	2	5	2
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>31	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>26	0	0	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

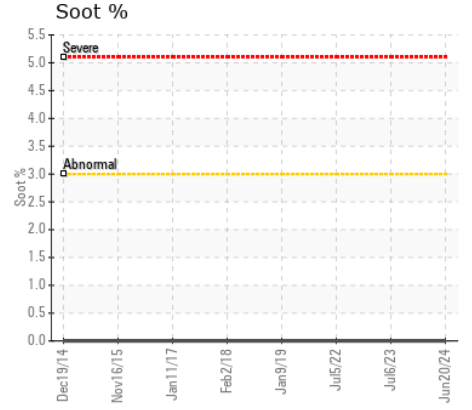
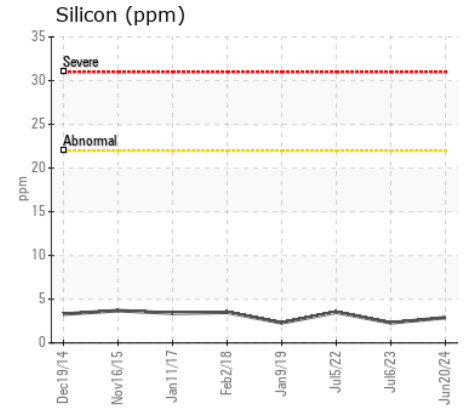
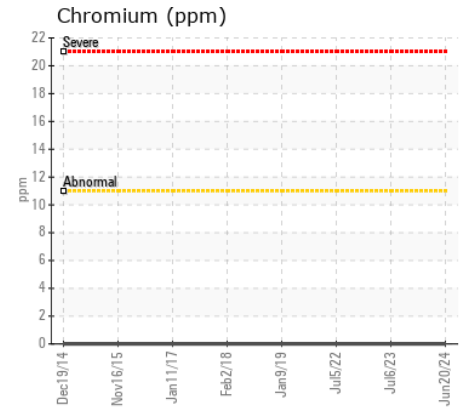
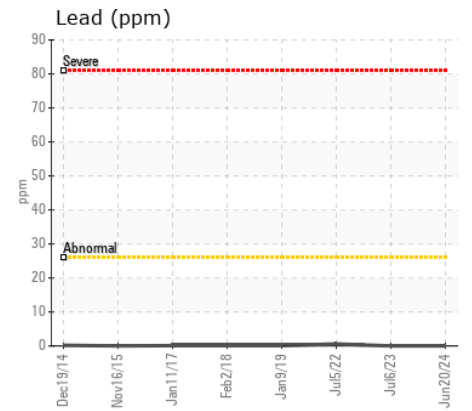
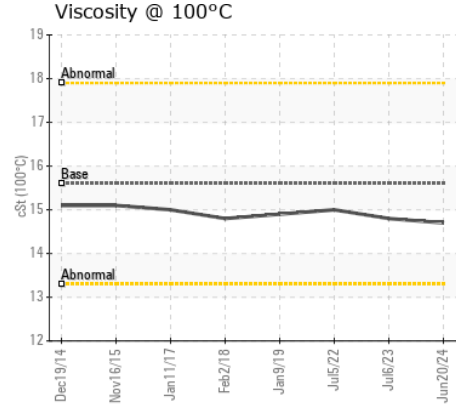
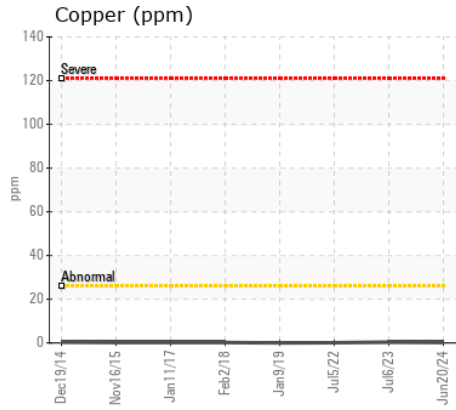
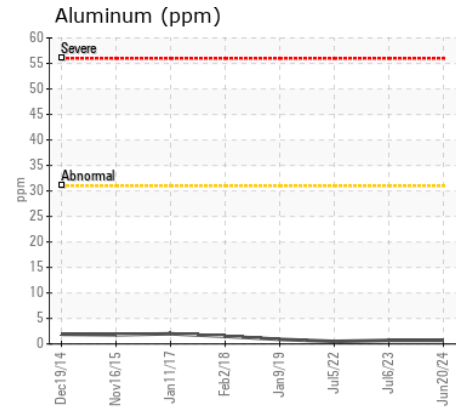
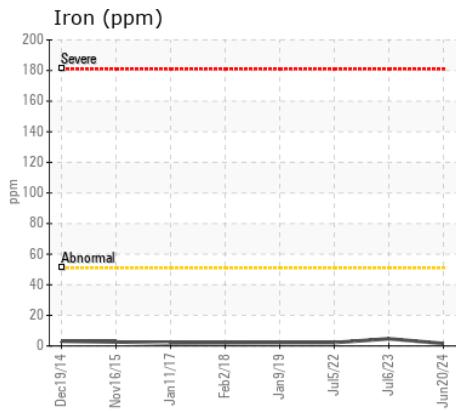
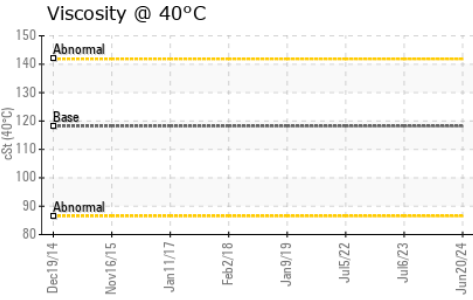
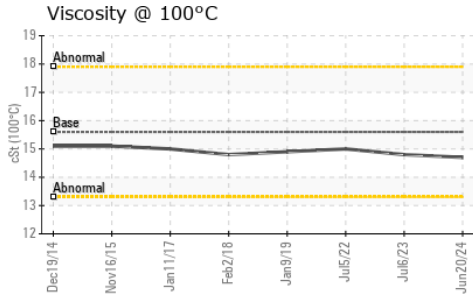
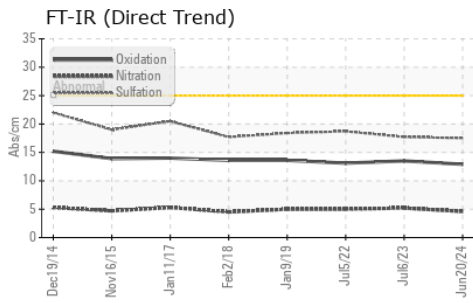
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	2	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.6	5.2	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	17.7	18.7
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*	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>31	1	1	1
Boron	ppm	ASTM D5185(m)	1	5	6	9
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	57	54
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	935	963	878
Calcium	ppm	ASTM D5185(m)	1070	1018	1062	1076
Phosphorus	ppm	ASTM D5185(m)	1150	962	1076	1005
Zinc	ppm	ASTM D5185(m)	1270	1157	1180	1164
Sulfur	ppm	ASTM D5185(m)	2060	2544	2616	2697
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	13.5	13.1
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	108	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.7	14.8	15.0
Viscosity Index (VI)	Scale	ASTM D2270*	139	140	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021457
Lab Number : 02644131
Unique Number : 5801670
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Wes Davis

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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