



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
72
 Component
Rear 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		PC0078273	PC0071679	PC0071646
Sample Date		Client Info		22 Mar 2024	10 Nov 2023	11 Apr 2023
Machine Age	kms	Client Info		82807	76341	68592
Oil Age	kms	Client Info		8000	8000	8000
Filter Age	kms	Client Info		8000	8000	8000
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)	>200	9	16	7
Chromium	ppm	ASTM D5185(m)	>20	1	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	6	11	1
Lead	ppm	ASTM D5185(m)	>30	<1	3	3
Copper	ppm	ASTM D5185(m)	>30	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

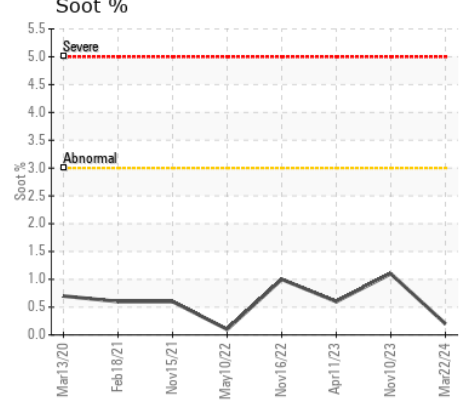
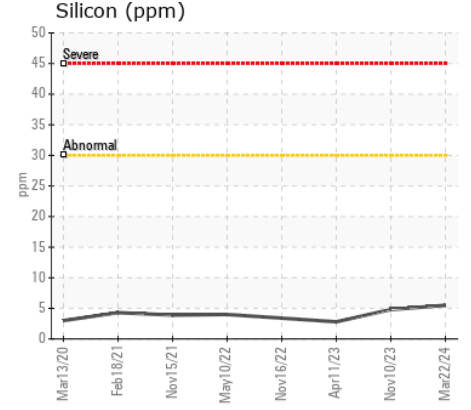
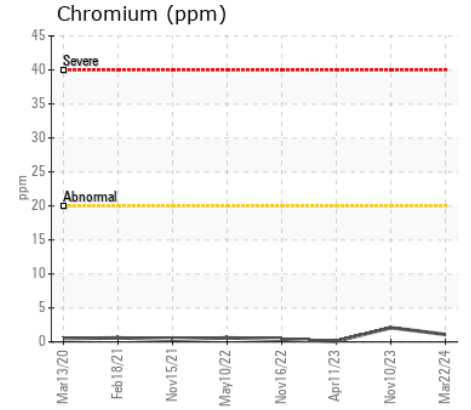
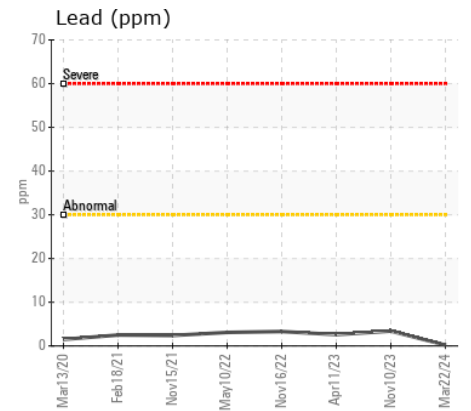
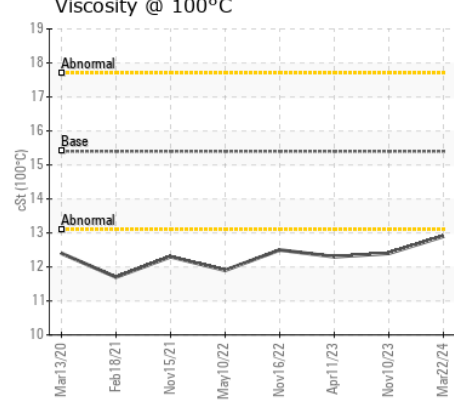
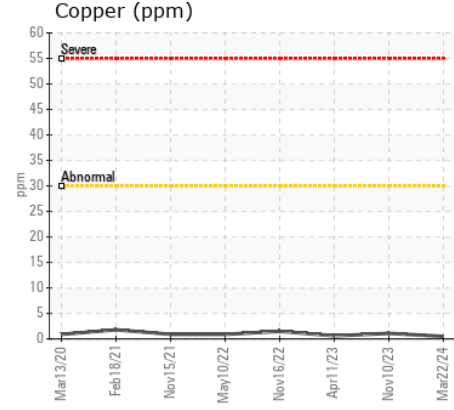
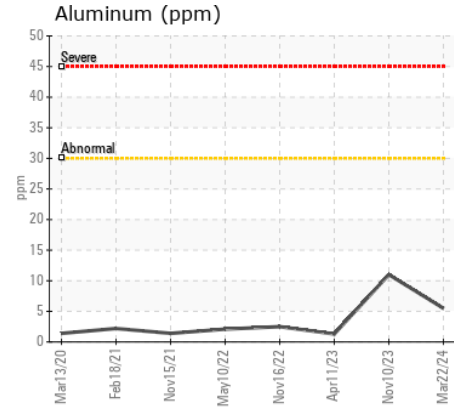
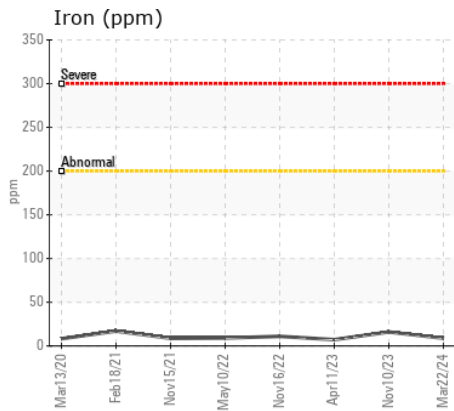
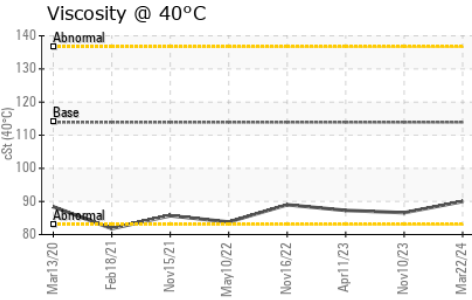
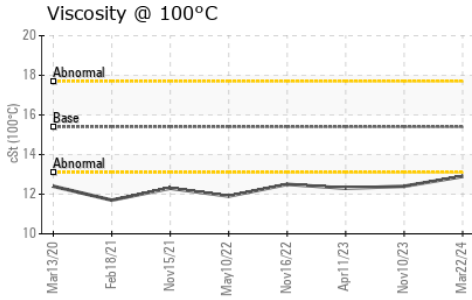
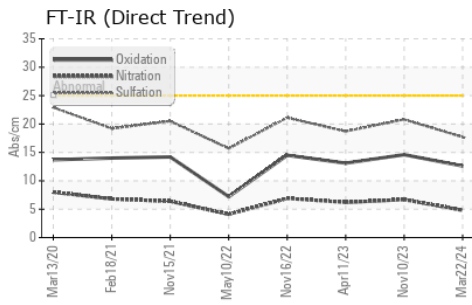
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	6	5	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<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*	>3	0.2	1.1	0.6
Nitration	Abs/cm	ASTM D7624*	>20	4.8	6.7	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	20.8	18.7
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)		2	3	2
Boron	ppm	ASTM D5185(m)	0	15	2	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	58	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	916	948	916
Calcium	ppm	ASTM D5185(m)	1070	1038	1024	1150
Phosphorus	ppm	ASTM D5185(m)	1150	959	977	1092
Zinc	ppm	ASTM D5185(m)	1270	1109	1152	1187
Sulfur	ppm	ASTM D5185(m)	2060	2493	2525	2739
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.6	14.6	13.1
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	90.0	86.6	87.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.9	12.4	12.3
Viscosity Index (VI)	Scale	ASTM D2270*	142	141	139	135



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078273
Lab Number : 02628100
Unique Number : 5761232
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 11 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 11 Apr 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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