

Machine Id
116
Component
Rear Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078533	PC0077501	PC0071637
Sample Date		Client Info		08 Jan 2024	23 Aug 2023	25 Apr 2023
Machine Age	kms	Client Info		485157	457009	427572
Oil Age	kms	Client Info		30000	30000	30000
Filter Age	kms	Client Info		30000	30000	30000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	20	22	25
Chromium	ppm	ASTM D5185(m)	>5	1	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>150	4	6	6
Copper	ppm	ASTM D5185(m)	>90	1	1	<1
Tin	ppm	ASTM D5185(m)	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

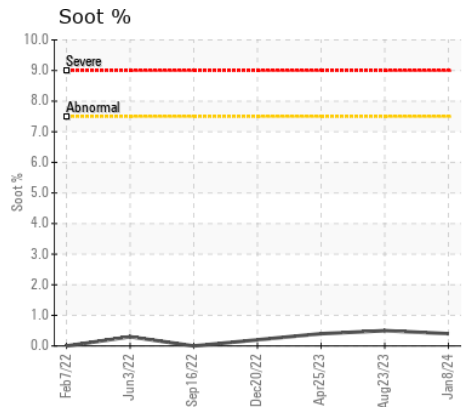
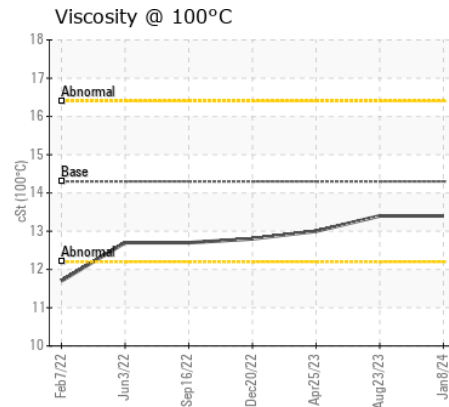
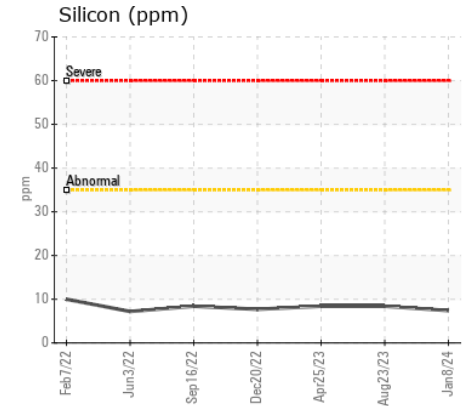
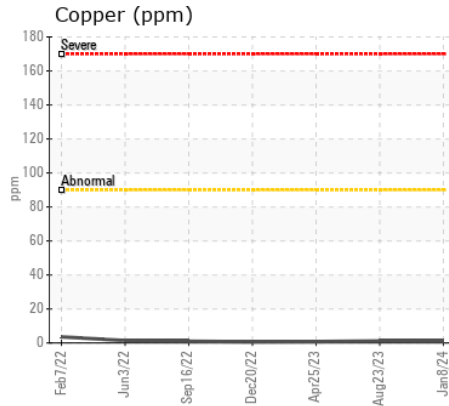
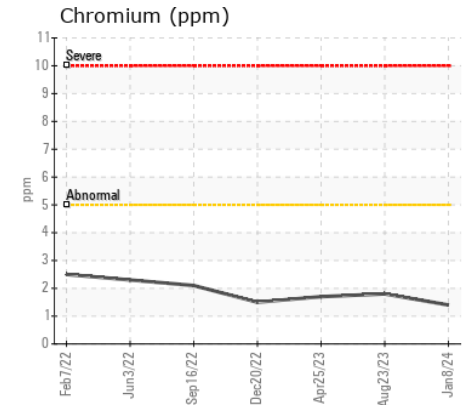
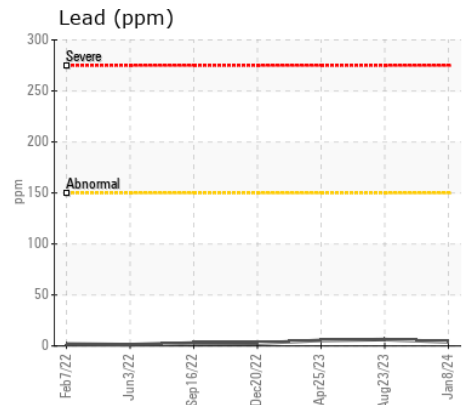
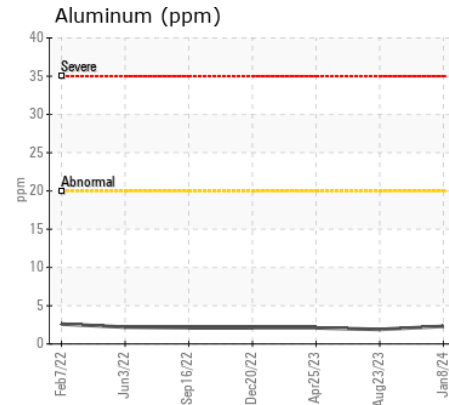
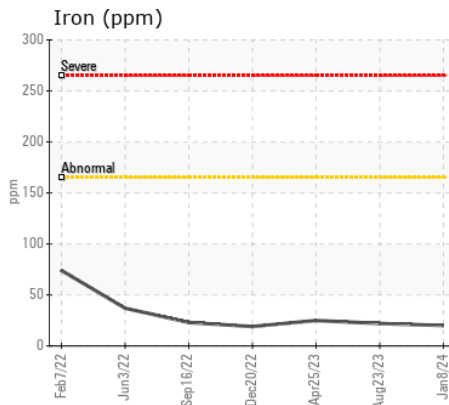
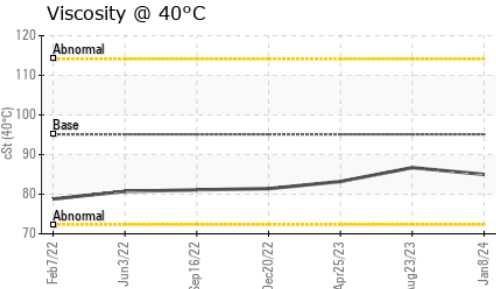
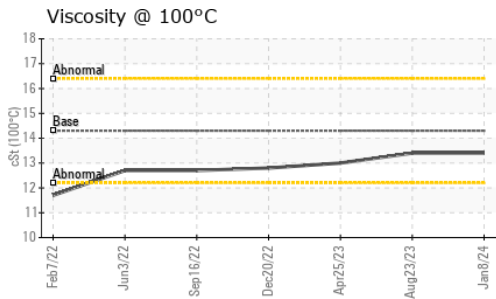
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	7	8	8
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*	>7.5	0.4	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	12.6	12.9	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	25.6	25.1
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	5	5
Boron	ppm	ASTM D5185(m)	65	26	21	26
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	63	65	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1154	1185	1148
Calcium	ppm	ASTM D5185(m)	820	926	905	968
Phosphorus	ppm	ASTM D5185(m)	1160	1076	1121	1167
Zinc	ppm	ASTM D5185(m)	1260	1269	1273	1304
Sulfur	ppm	ASTM D5185(m)	3000	2932	2713	2824
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.0	25.0	24.6
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	85.0	86.7	83.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.4	13.4	13.0
Viscosity Index (VI)	Scale	ASTM D2270*	169	159	156	156



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078533 **Received** : 22 Jan 2024
Lab Number : 02610152 **Diagnosed** : 22 Jan 2024
Unique Number : 5711238 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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