



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
123
Component
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		PC0078165	PC0077625	PC0071713
Sample Date		Client Info		27 Feb 2024	25 Oct 2023	17 Jul 2023
Machine Age	kms	Client Info		515355	486736	454405
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	15	11	10
Chromium	ppm	ASTM D5185(m)	>5	1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	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	2	2	1
Lead	ppm	ASTM D5185(m)	>150	4	4	3
Copper	ppm	ASTM D5185(m)	>90	1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

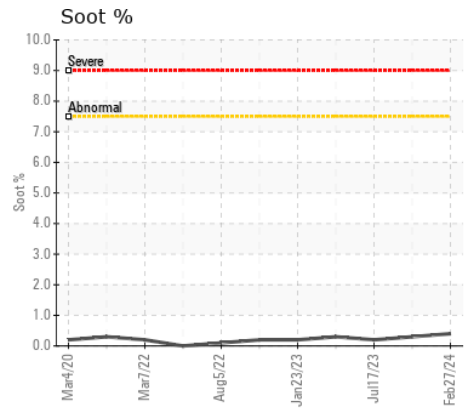
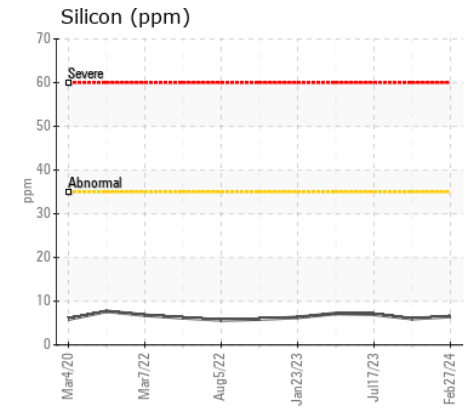
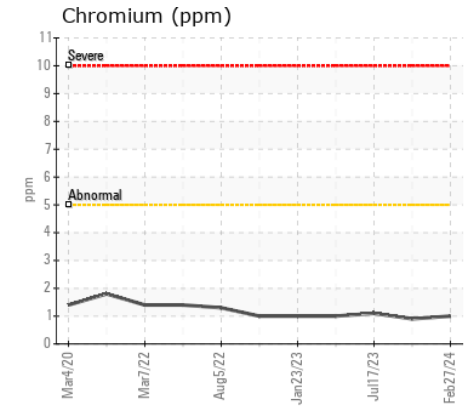
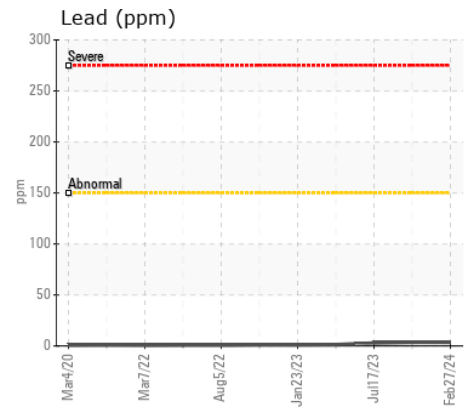
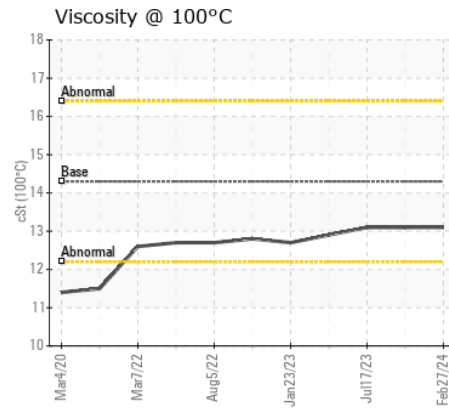
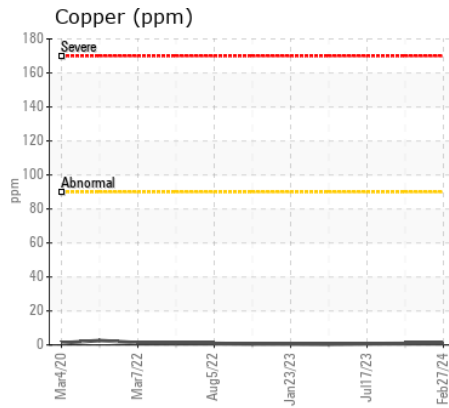
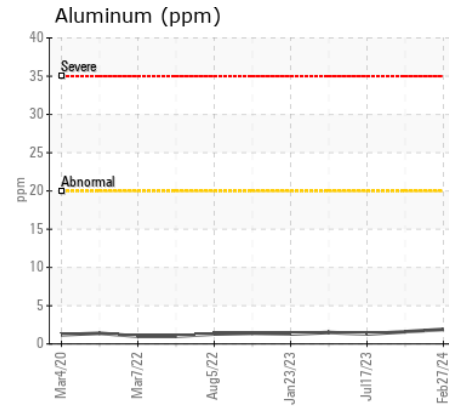
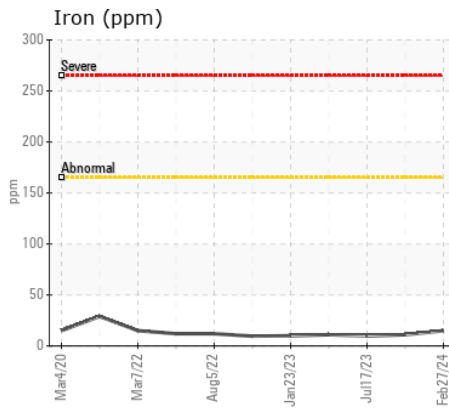
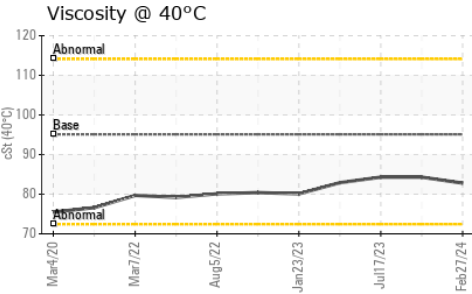
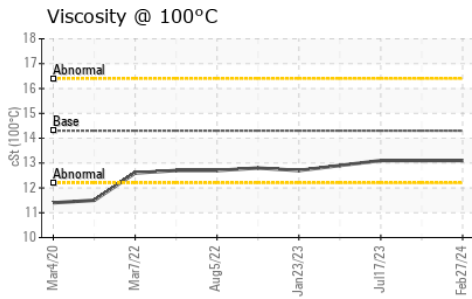
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	6	6	7
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*	>7.5	0.4	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	12.0	11.6	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	24.1	23.9
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)		6	5	5
Boron	ppm	ASTM D5185(m)	65	26	23	21
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	65	62	64	65
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1136	1140	1195
Calcium	ppm	ASTM D5185(m)	820	918	902	902
Phosphorus	ppm	ASTM D5185(m)	1160	1076	989	1145
Zinc	ppm	ASTM D5185(m)	1260	1257	1273	1296
Sulfur	ppm	ASTM D5185(m)	3000	2944	2652	2804
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.7	22.5	22.2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	82.8	84.3	84.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.1	13.1	13.1
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. : PC0078165
Lab Number : 02619475
Unique Number : 5736585
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 04 Mar 2024
Tested : 04 Mar 2024
Diagnosed : 04 Mar 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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