



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

124

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		PC0078164	PC0077632	PC0077493
Sample Date		Client Info		20 Feb 2024	07 Nov 2023	10 Aug 2023
Machine Age	kms	Client Info		9513	154012	124826
Oil Age	kms	Client Info		0	30000	30000
Filter Age	kms	Client Info		0	30000	30000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	18	12	11
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
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	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

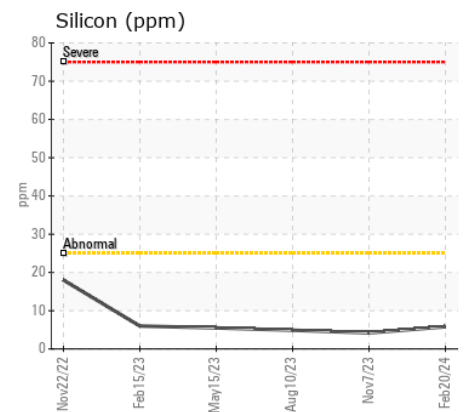
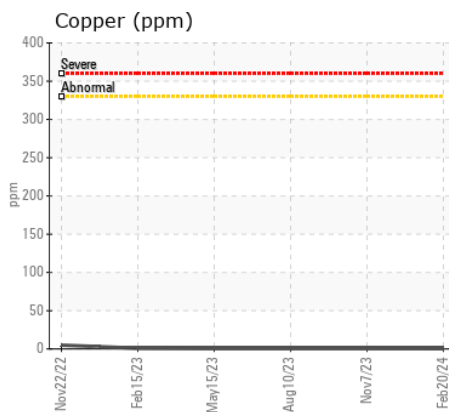
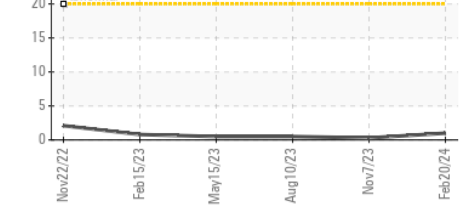
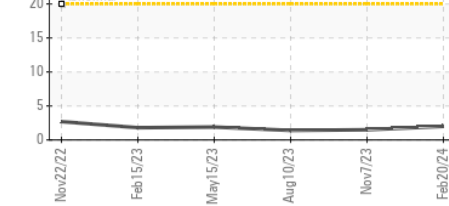
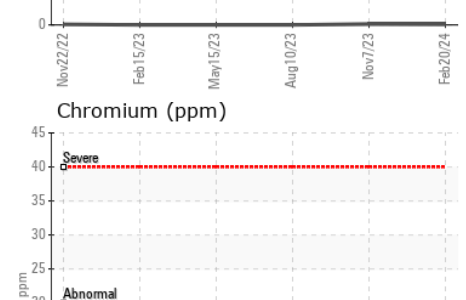
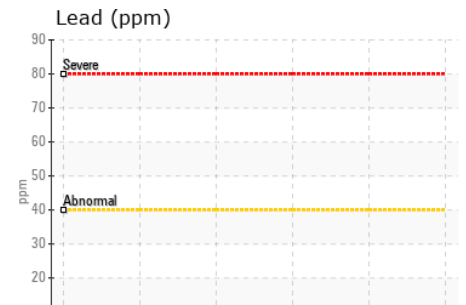
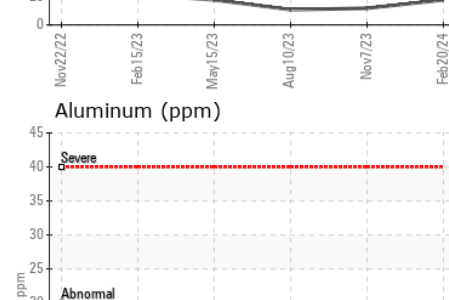
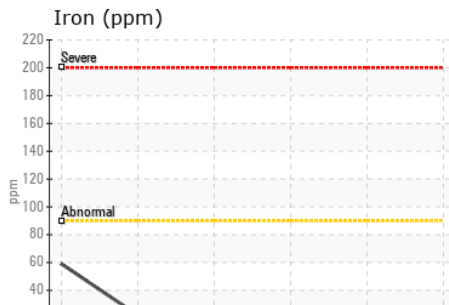
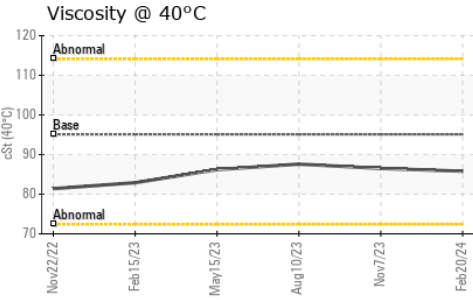
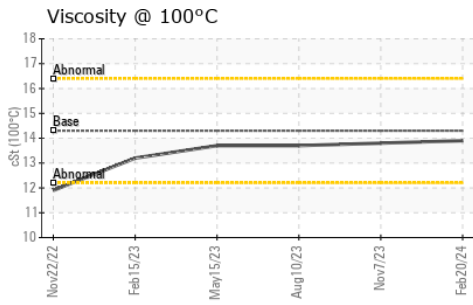
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	4	5
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*	>6	0.3	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.7	10.0	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	22.1	22.4
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)		4	4	4
Boron	ppm	ASTM D5185(m)	65	29	21	20
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	65	58	60	60
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1060	1080	1101
Calcium	ppm	ASTM D5185(m)	820	859	824	838
Phosphorus	ppm	ASTM D5185(m)	1160	996	939	1012
Zinc	ppm	ASTM D5185(m)	1260	1176	1165	1183
Sulfur	ppm	ASTM D5185(m)	3000	2869	2594	2669
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	20.4	19.6
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	85.8	86.5	87.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.9	13.8	13.7
Viscosity Index (VI)	Scale	ASTM D2270*	169	166	163	159



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078164 **Received** : 04 Mar 2024
Lab Number : 02619474 **Tested** : 04 Mar 2024
Unique Number : 5736584 **Diagnosed** : 04 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.