



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1811
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0925684	WC0883005	WC0873862
Sample Date		Client Info		08 Apr 2024	05 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		25448	24688	24133
Oil Age	hrs	Client Info		508	500	624
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	40	28	35
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

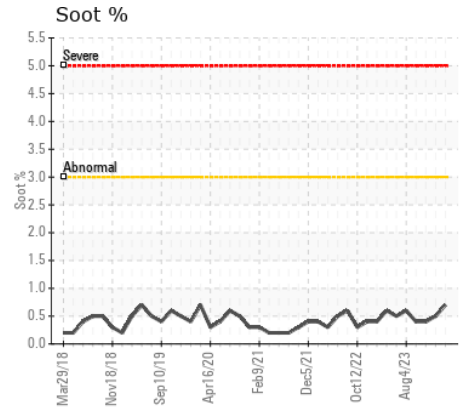
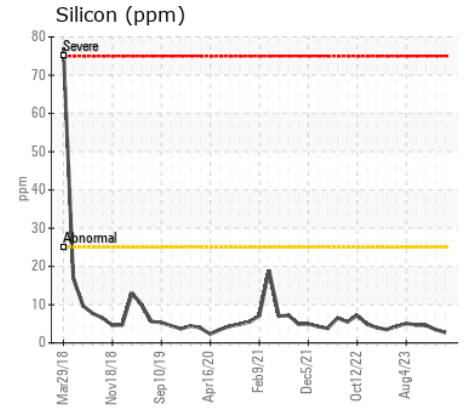
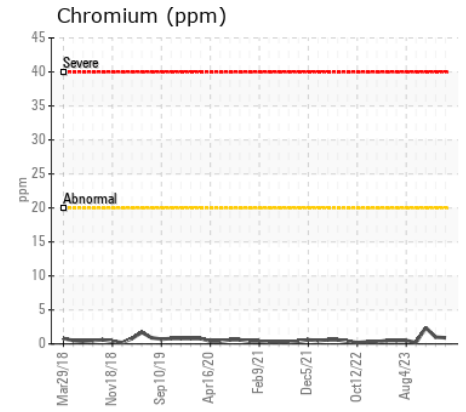
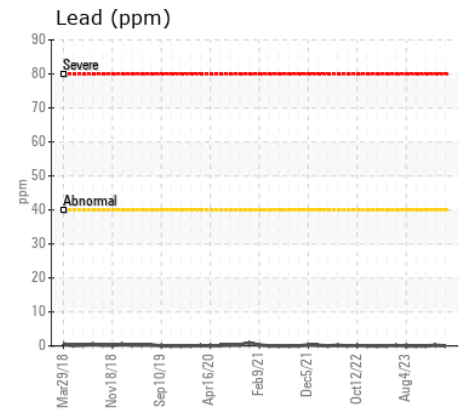
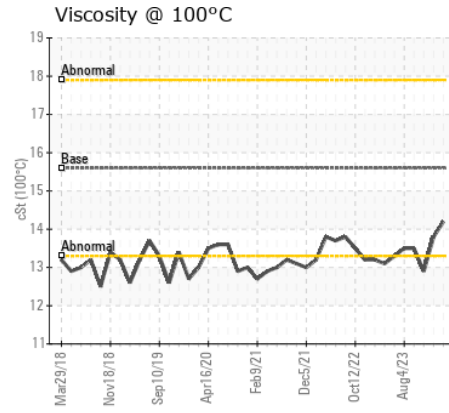
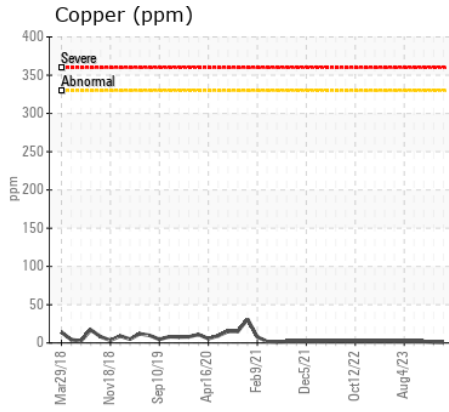
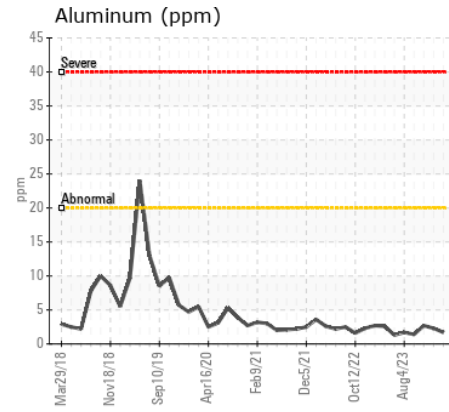
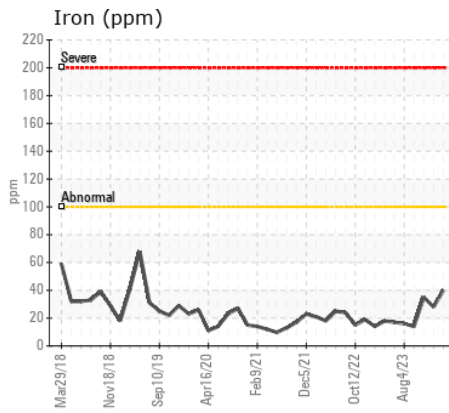
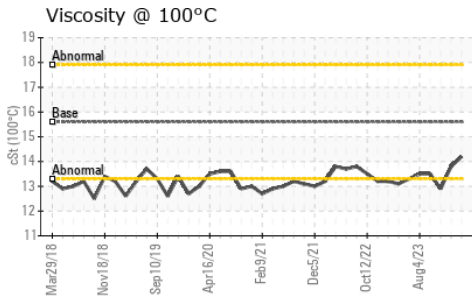
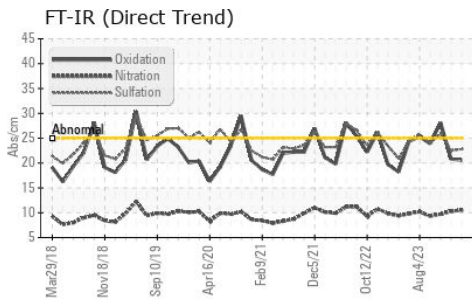
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel		WC Method	>5	<1.0	<1.0	▲ 2.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.7	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.5	10.3	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.8	22.5	25.9
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)		2	1	2
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	58	57
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	962	961	940
Calcium	ppm	ASTM D5185(m)	1070	1054	1067	1033
Phosphorus	ppm	ASTM D5185(m)	1150	947	1000	932
Zinc	ppm	ASTM D5185(m)	1270	1177	1171	1141
Sulfur	ppm	ASTM D5185(m)	2060	2409	2647	2378
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.6	20.8	28.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.2	13.8	12.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0925684 **Received** : 11 Apr 2024
Lab Number : 02628125 **Tested** : 11 Apr 2024
Unique Number : 5761257 **Diagnosed** : 11 Apr 2024 - Wes Davis
Test Package : MOB 1

KINGSTON TRANSIT
 1181 JOHN COUNTER BLVD
 KINGSTON, ON
 CA K7K 6C7
 Contact: Brent Gunter
 bgunter@cityofkingston.ca
 T: (613)546-4291
 F: (613)542-1504

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.