



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1630
 Component
Rear Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Oil interval over by 1496km.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081941	PC0081602	PC0076644
Sample Date		Client Info		03 May 2024	19 Feb 2024	17 Nov 2023
Machine Age	kms	Client Info		486417	486417	471767
Oil Age	kms	Client Info		13496	14650	13922
Filter Age	kms	Client Info		13496	14650	13922
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)	>100	27	28	30
Chromium	ppm	ASTM D5185(m)	>20	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<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	4
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	6	6	5
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

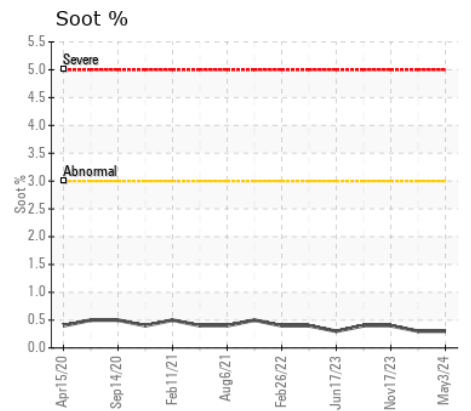
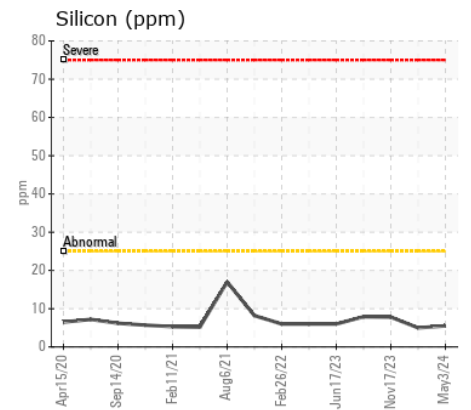
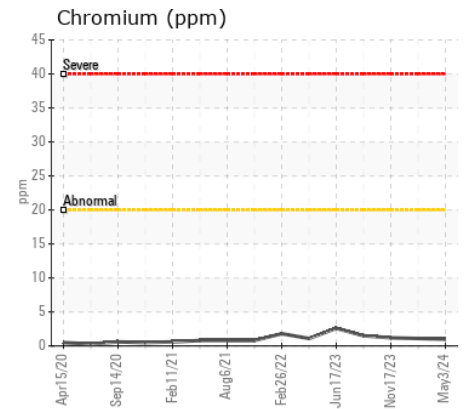
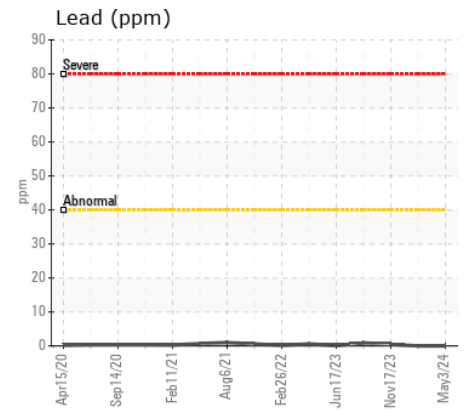
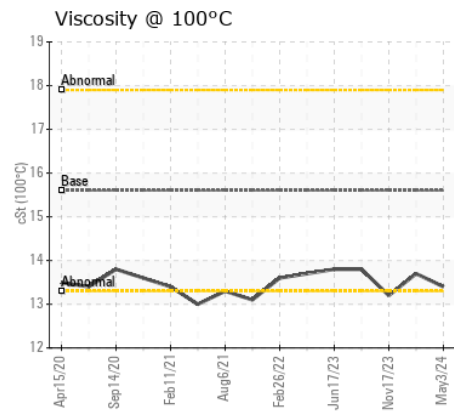
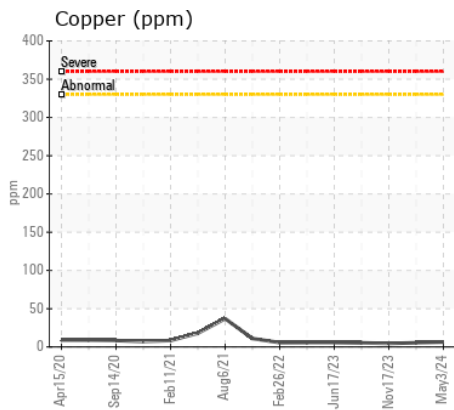
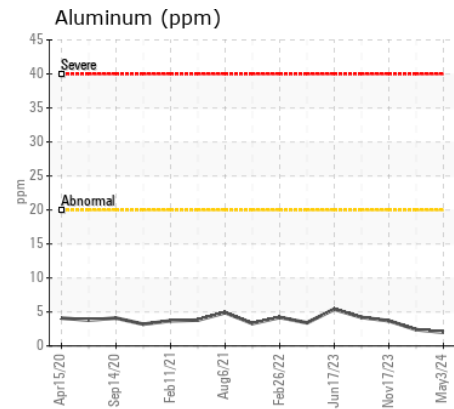
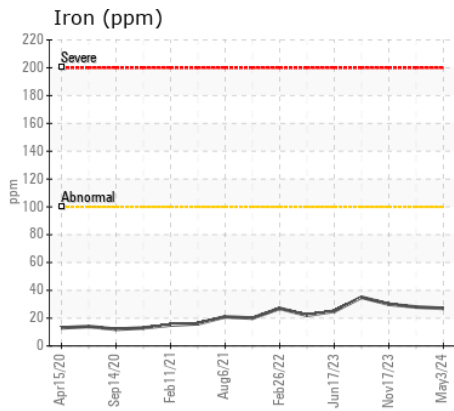
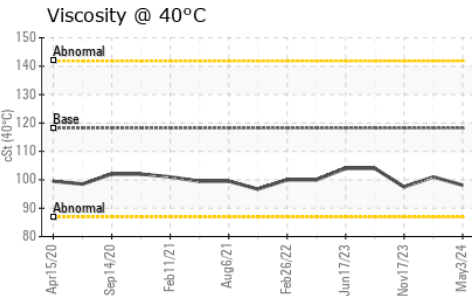
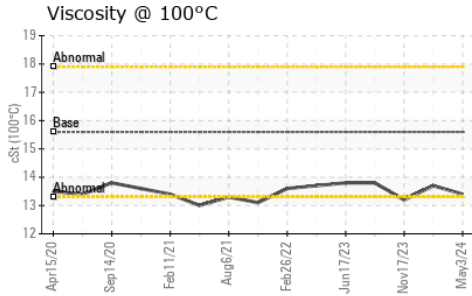
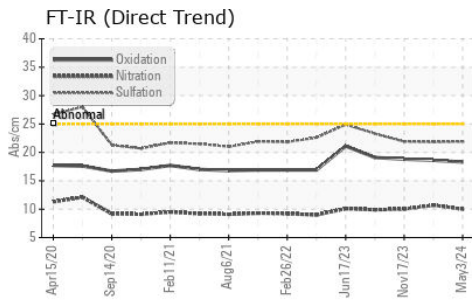
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	8
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	1.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.0	10.7	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	21.8	21.9
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)		7	8	8
Boron	ppm	ASTM D5185(m)	0	2	1	6
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	62	62	59
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1003	1016	935
Calcium	ppm	ASTM D5185(m)	1070	1114	1160	1171
Phosphorus	ppm	ASTM D5185(m)	1150	998	977	1018
Zinc	ppm	ASTM D5185(m)	1270	1207	1274	1248
Sulfur	ppm	ASTM D5185(m)	2060	2341	2471	2447
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	18.6	18.8
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	98.1	101	97.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.4	13.7	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	136	133



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081941
Lab Number : 02638333
Unique Number : 5787495
Test Package : MOB 1 (Additional Tests: KV40, VI)
Received : 29 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Kevin Marson

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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