



Machine Id
0756
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082789	PC0077855	PC0032178
Sample Date		Client Info		14 Mar 2024	01 Dec 2023	21 Sep 2023
Machine Age	kms	Client Info		1034128	1020510	1005331
Oil Age	kms	Client Info		13492	15075	18984
Filter Age	kms	Client Info		13492	15075	18984
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	44	27	44
Chromium	ppm	ASTM D5185(m)	>20	2	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	1	1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	1	2
Lead	ppm	ASTM D5185(m)	>40	6	8	12
Copper	ppm	ASTM D5185(m)	>330	14	2	4
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

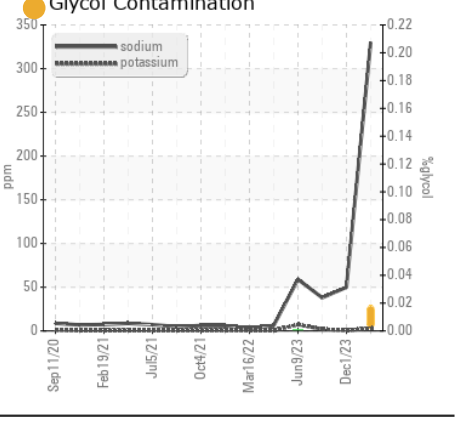
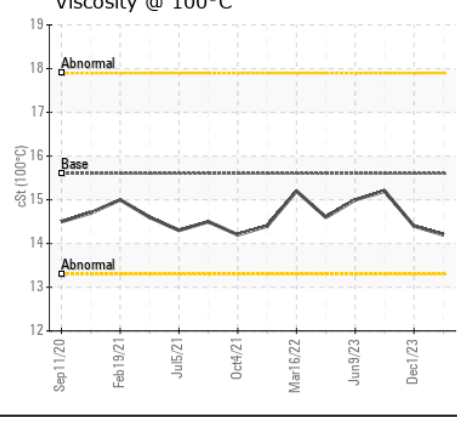
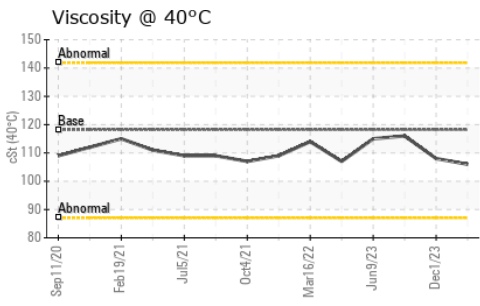
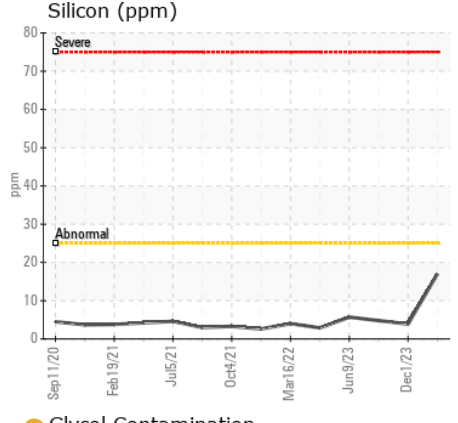
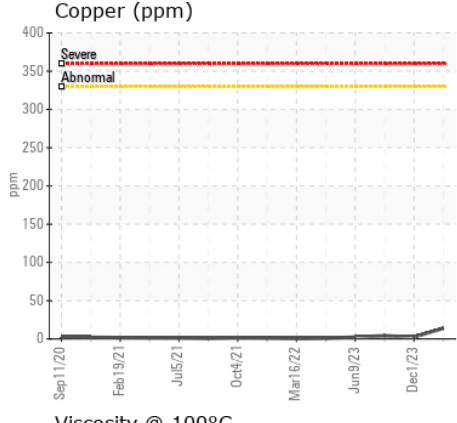
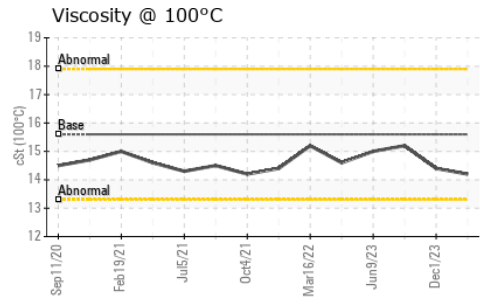
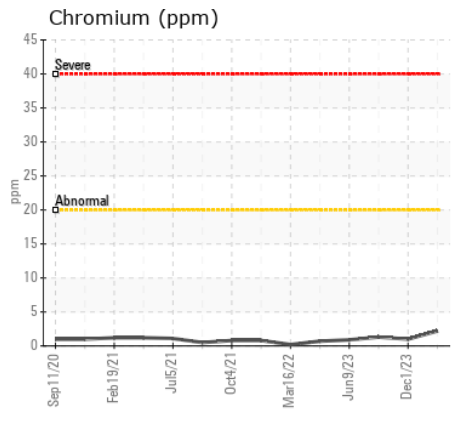
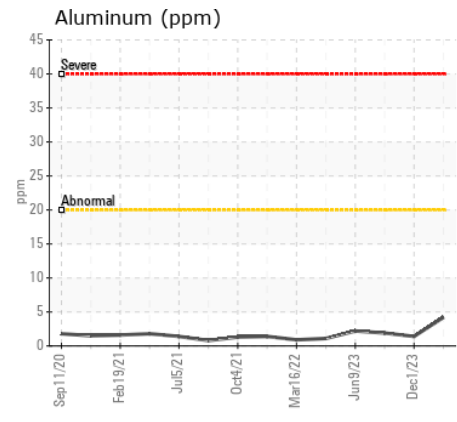
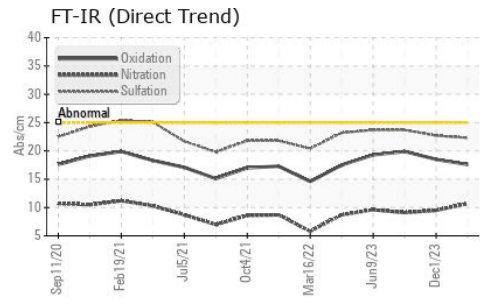
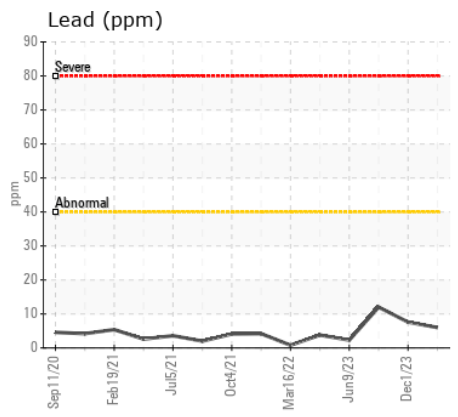
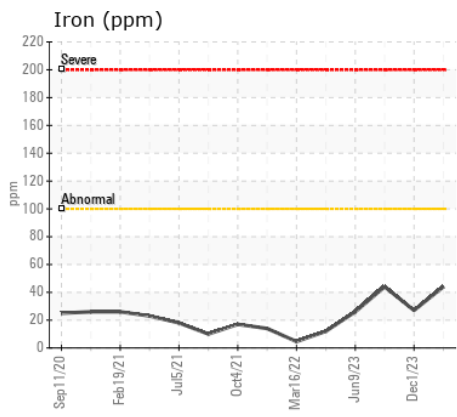
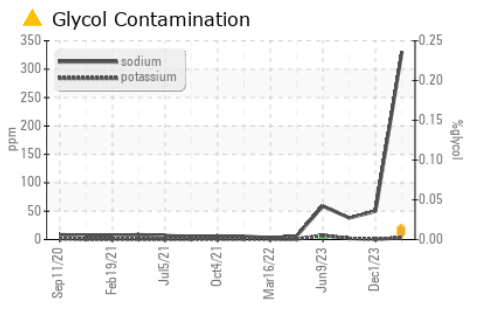
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	17	4	5
Potassium	ppm	ASTM D5185(m)	>20	3	<1	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.018	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.7	0.9
Nitration	Abs/cm	ASTM D7624*	>20	10.7	9.5	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	22.7	23.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		● 330	50	38
Boron	ppm	ASTM D5185(m)	0	15	7	12
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	73	67	57
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1032	1071	888
Calcium	ppm	ASTM D5185(m)	1070	1157	1261	1502
Phosphorus	ppm	ASTM D5185(m)	1150	1044	1110	1099
Zinc	ppm	ASTM D5185(m)	1270	1265	1363	1385
Sulfur	ppm	ASTM D5185(m)	2060	2492	2662	2647
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	18.5	19.9
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	106	108	116
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.2	14.4	15.2
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	136	136



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082789 **Received** : 05 Apr 2024
Lab Number : 02626865 **Tested** : 05 Apr 2024
Unique Number : 5759997 **Diagnosed** : 05 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, 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.