

Machine Id
08163
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON UHP 5W40, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. Please specify the component make and model with your next sample.

WEAR

Metal levels are typical for a new component breaking in.

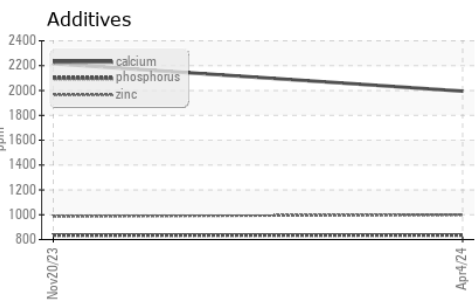
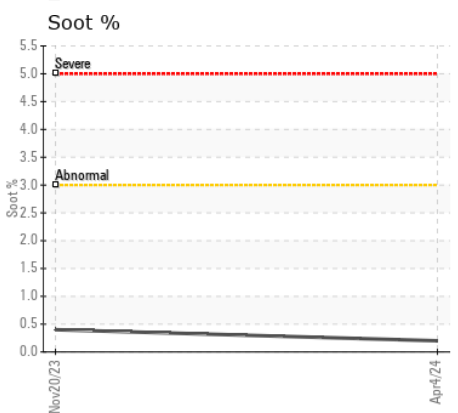
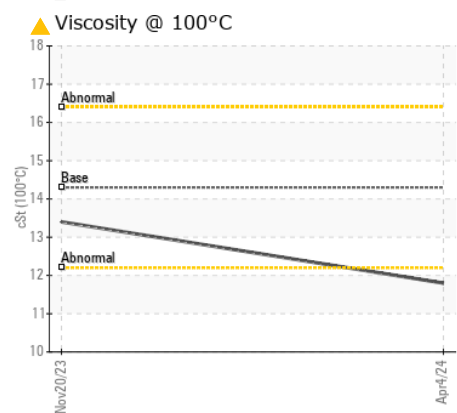
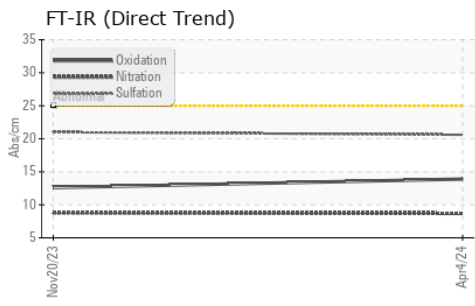
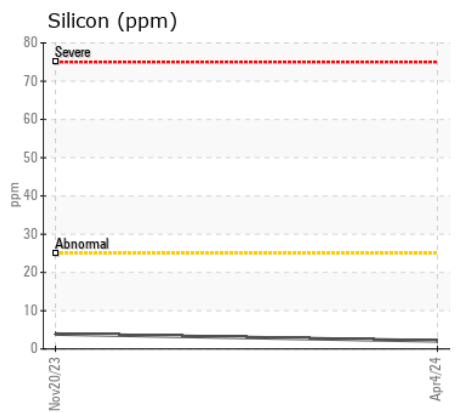
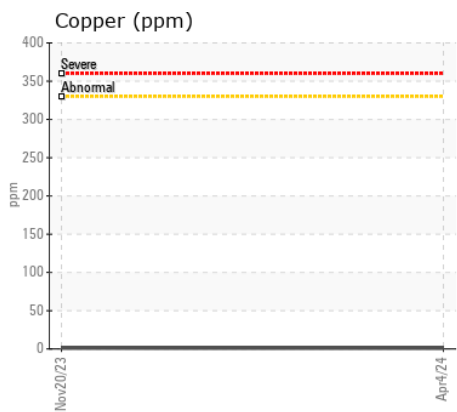
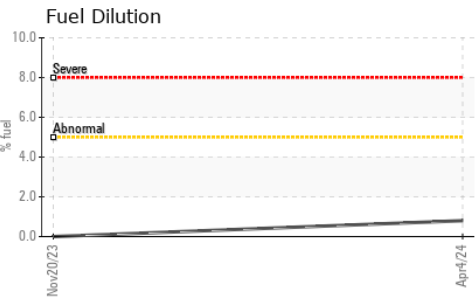
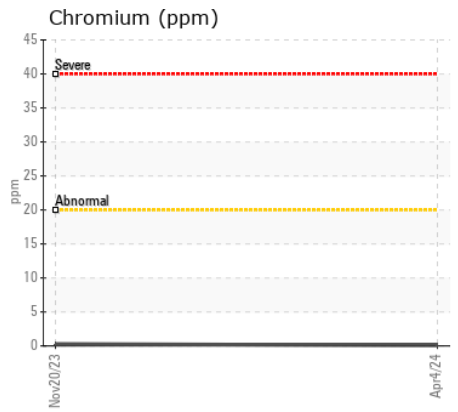
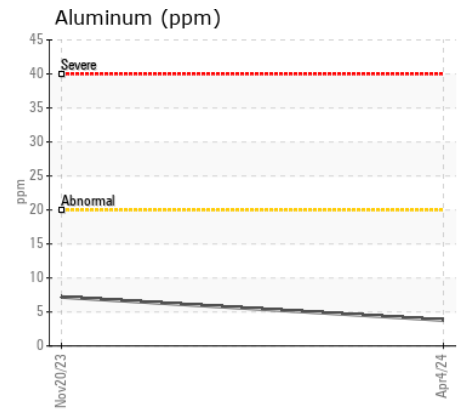
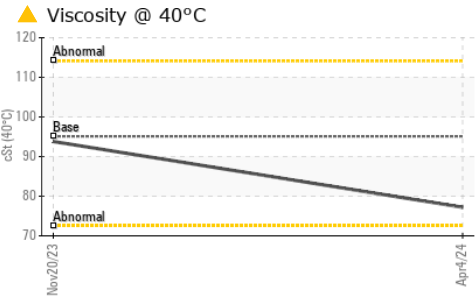
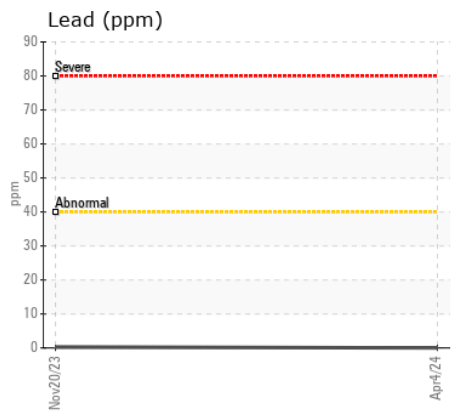
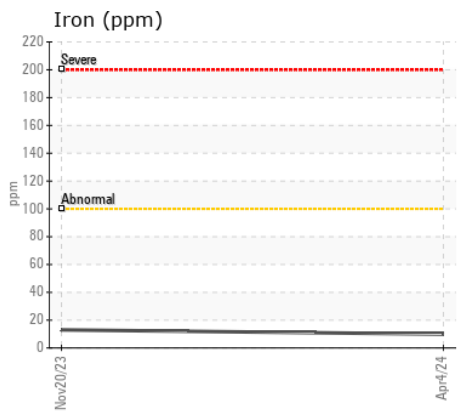
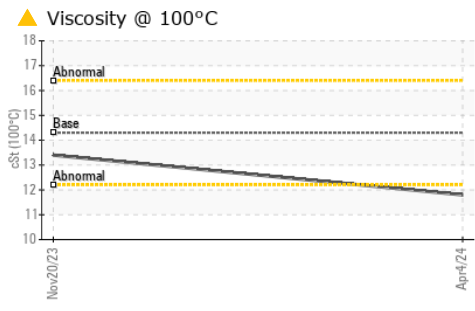
CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082025	PC0078009	---
Sample Date		Client Info		04 Apr 2024	20 Nov 2023	---
Machine Age	hrs	Client Info		799	149	---
Oil Age	hrs	Client Info		0	250	---
Filter Age	hrs	Client Info		0	250	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>100	10	13	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	4	7	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	1	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>25	2	4	---
Potassium	ppm	ASTM D5185(m)	>20	2	3	---
Fuel	%	ASTM D7593*	>5	0.8	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.2	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	21.0	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)	65	9	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	65	12	2	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	1160	201	22	---
Calcium	ppm	ASTM D5185(m)	820	1995	2216	---
Phosphorus	ppm	ASTM D5185(m)	1160	836	835	---
Zinc	ppm	ASTM D5185(m)	1260	998	987	---
Sulfur	ppm	ASTM D5185(m)	3000	2798	3008	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	12.6	---
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	▲ 77.2	93.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	▲ 11.8	13.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	169	147	143	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082025 **Received** : 12 Apr 2024
Lab Number : 02628362 **Tested** : 15 Apr 2024
Unique Number : 5761494 **Diagnosed** : 15 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual)
 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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