

Machine Id
CR247
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (31 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0089315	PC0078383	PC0072024
Sample Date		Client Info		18 Apr 2024	25 Jan 2024	02 Mar 2023
Machine Age	hrs	Client Info		10205	9843	8850
Oil Age	hrs	Client Info		0	500	500
Filter Age	hrs	Client Info		0	500	500
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)	>120	5	8	4
Chromium	ppm	ASTM D5185(m)	>10	<1	2	1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	3	<1
Copper	ppm	ASTM D5185(m)	>300	<1	1	<1
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

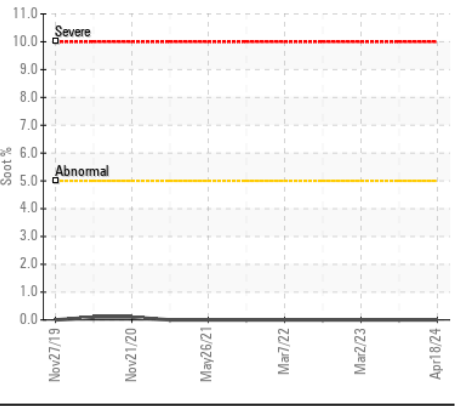
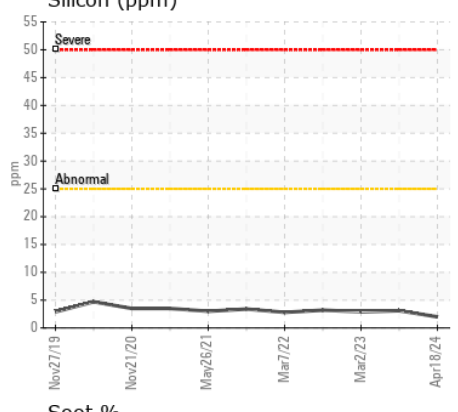
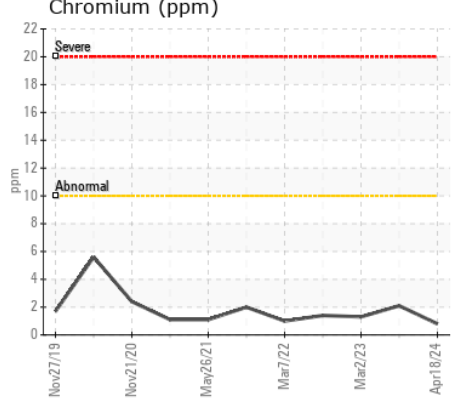
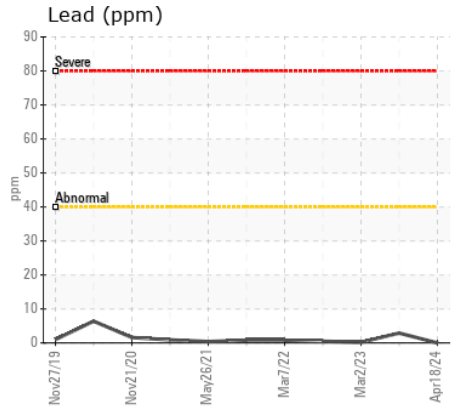
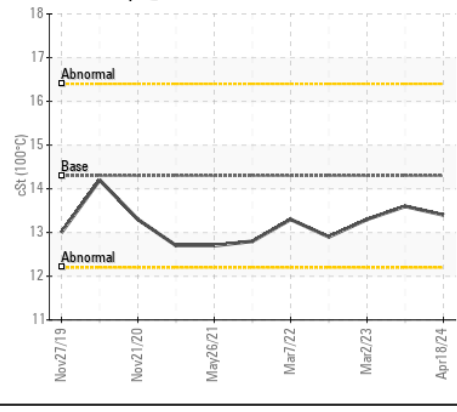
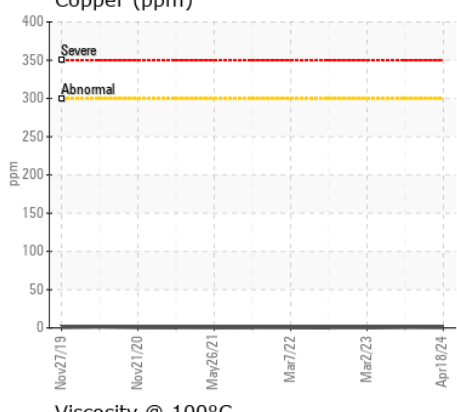
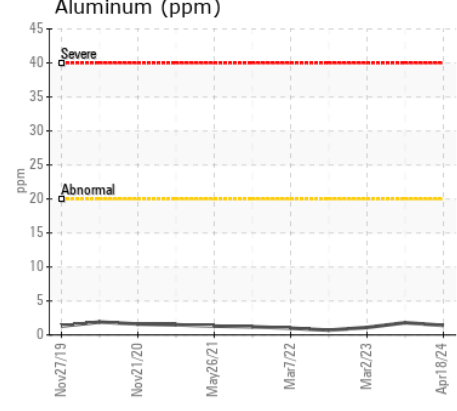
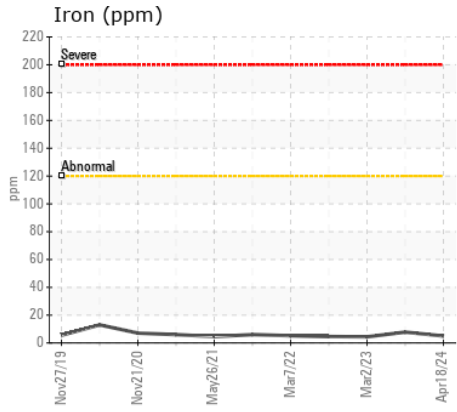
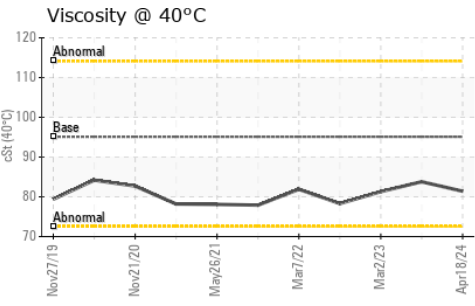
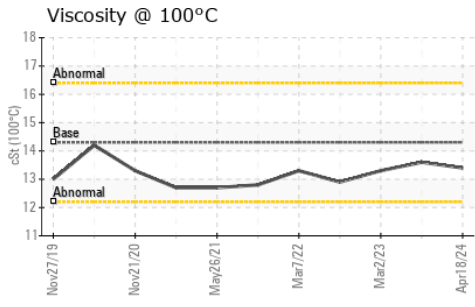
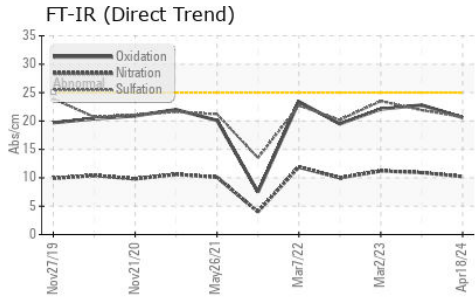
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.2	10.9	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	21.9	23.5
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	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	42	38	41
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	54	58	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1081	1092	1083
Calcium	ppm	ASTM D5185(m)	820	786	817	861
Phosphorus	ppm	ASTM D5185(m)	1160	957	1010	1057
Zinc	ppm	ASTM D5185(m)	1260	1140	1147	1180
Sulfur	ppm	ASTM D5185(m)	3000	2586	2836	2816
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.6	22.8	22.1
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	81.4	83.8	81.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.4	13.6	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	169	167	165	166



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0089315
Lab Number : 02631266
Unique Number : 5772419
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 25 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Kevin Marson

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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.