

Machine Id
CR255
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (44 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082031	PC0065680	PC0058660
Sample Date		Client Info		01 Apr 2024	27 Sep 2022	13 Apr 2022
Machine Age	hrs	Client Info		5997	3831	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	15	15
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	3	6
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

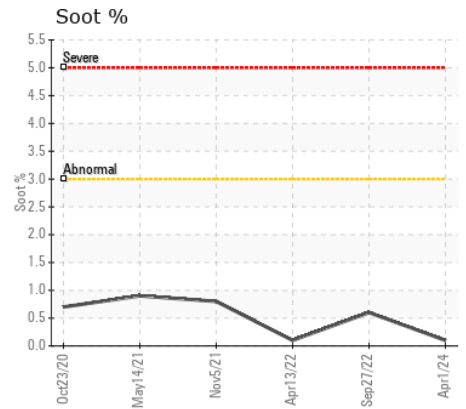
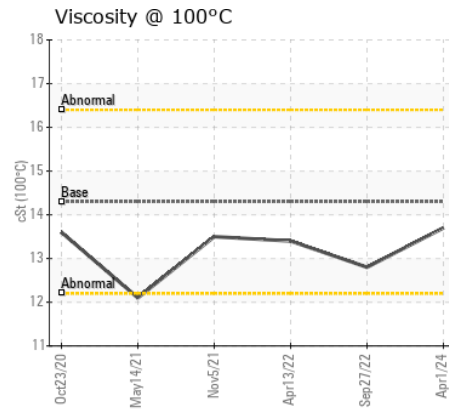
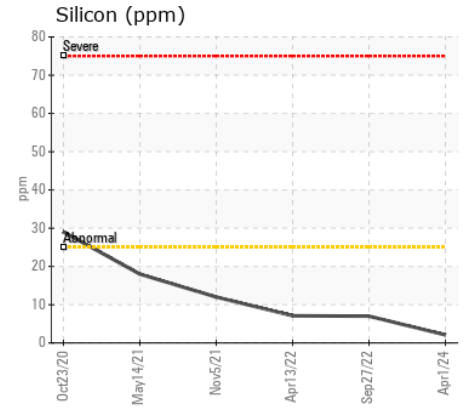
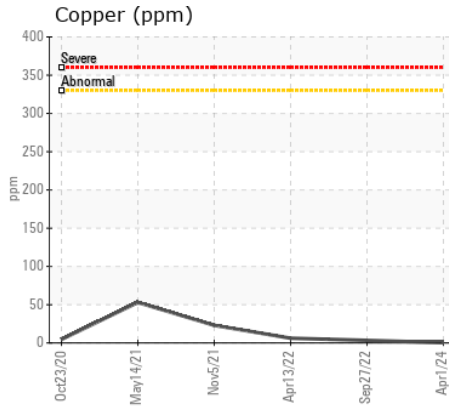
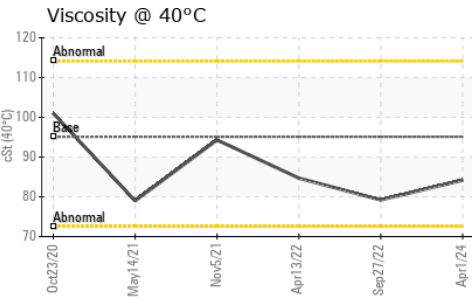
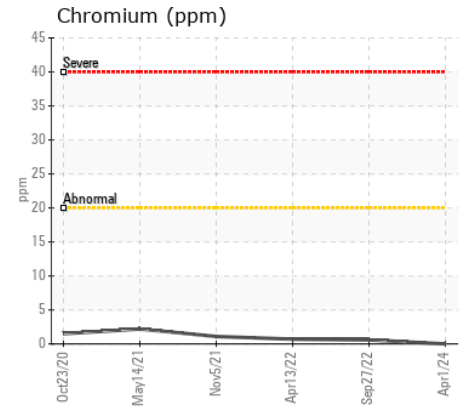
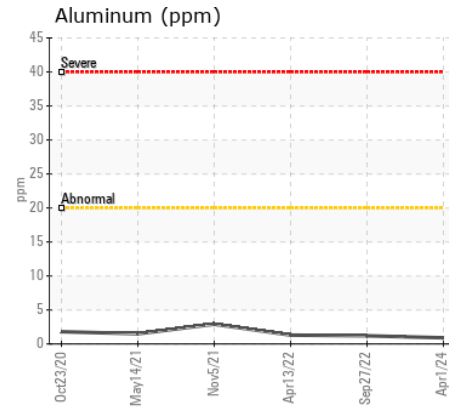
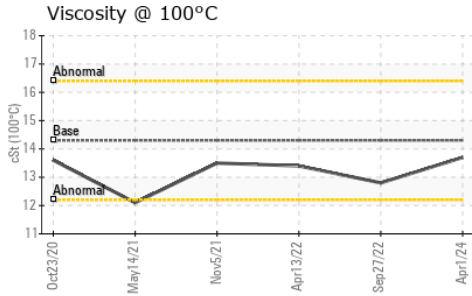
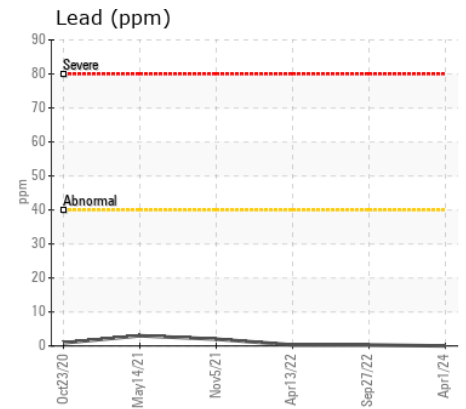
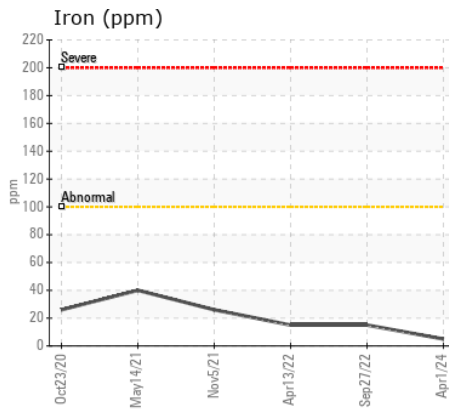
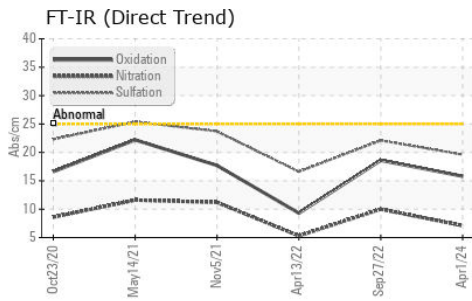
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	7	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.6	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.1	10.0	5.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	22.1	16.6
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)		3	3	3
Boron	ppm	ASTM D5185(m)	65	45	35	42
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	48	56	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	912	972	958
Calcium	ppm	ASTM D5185(m)	820	1013	908	1083
Phosphorus	ppm	ASTM D5185(m)	1160	950	1036	1065
Zinc	ppm	ASTM D5185(m)	1260	1134	1153	1246
Sulfur	ppm	ASTM D5185(m)	3000	2754	2722	3053
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.8	18.6	9.3
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	84.2	79.2	84.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.7	12.8	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	169	166	161	160



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082031
Lab Number : 02627828
Unique Number : 5760960
Test Package : MOB 1 (Additional Tests: KV40, VI)
Received : 10 Apr 2024
Tested : 10 Apr 2024
Diagnosed : 10 Apr 2024 - Wes Davis

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Bill Acton
 bacton@gipi.com

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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