



Machine Id
CAT 320EL 6914 (S/N CAT0320EEWBK03069)
Component
Rear Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (21 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0067882	PC0052727	PC0065436
Sample Date		Client Info		06 Feb 2024	15 Nov 2022	15 Nov 2022
Machine Age	hrs	Client Info		8184	7263	7263
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	49	87	49
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	23	1	▲ 25
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	0	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	▲ LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

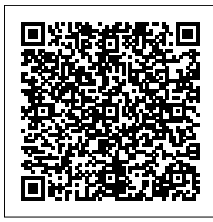
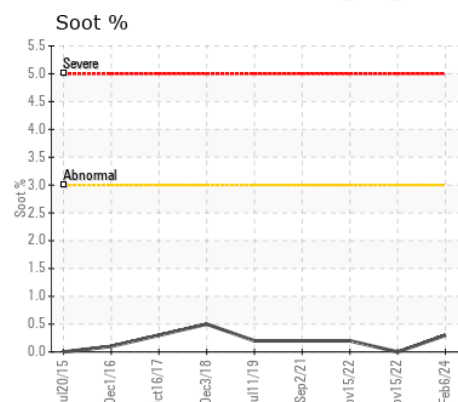
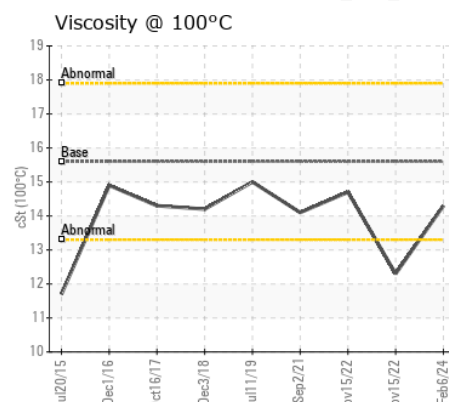
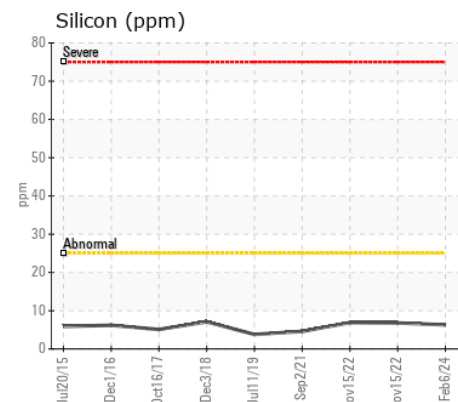
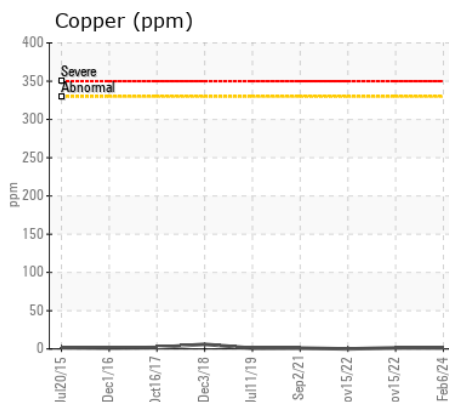
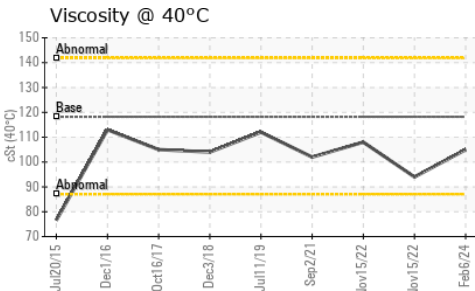
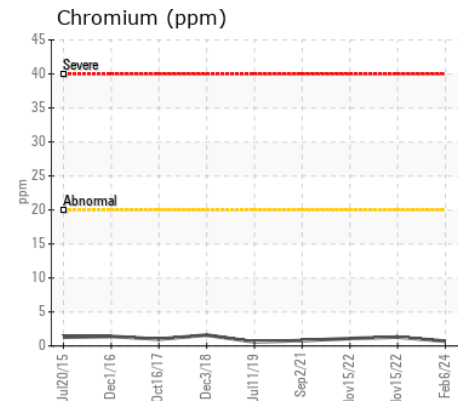
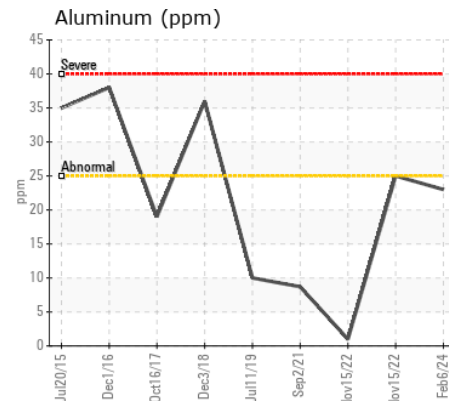
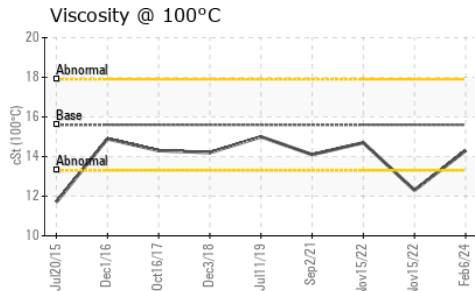
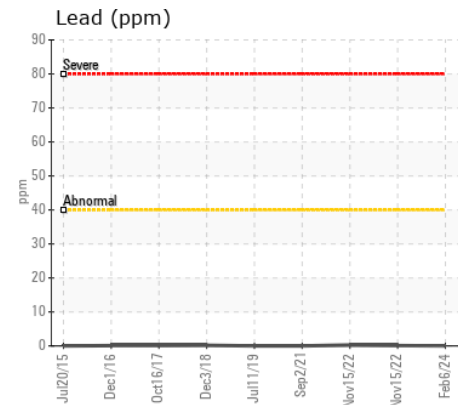
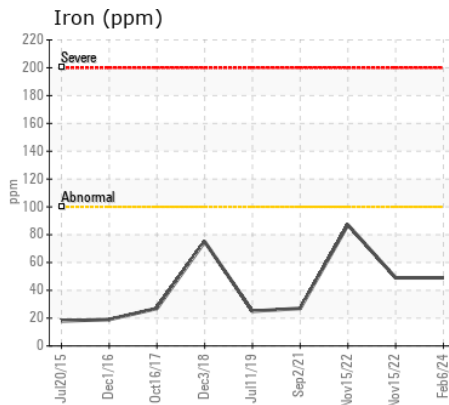
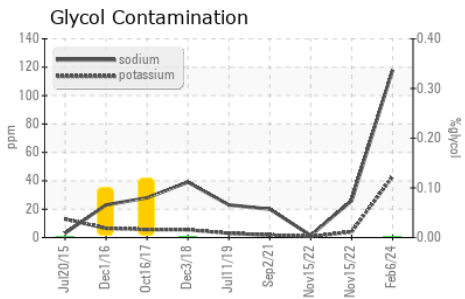
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	7	7
Potassium	ppm	ASTM D5185(m)	>20	43	<1	4
Fuel		WC Method	>5	<1.0	1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.1	4.1	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	24.1	20.1
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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)		118	2	26
Boron	ppm	ASTM D5185(m)	0	14	26	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	82	<1	63
Manganese	ppm	ASTM D5185(m)	0	0	1	<1
Magnesium	ppm	ASTM D5185(m)	1010	953	13	1012
Calcium	ppm	ASTM D5185(m)	1070	1081	3108	1128
Phosphorus	ppm	ASTM D5185(m)	1150	1025	1073	1120
Zinc	ppm	ASTM D5185(m)	1270	1177	1205	1256
Sulfur	ppm	ASTM D5185(m)	2060	2793	4244	2643
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	11.1	15.4
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	105	94	108
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.3	12.3	14.7
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	124	140



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0067882
Lab Number : 02616601
Unique Number : 5733711
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI, Visual)
Received : 20 Feb 2024
Tested : 20 Feb 2024
Diagnosed : 21 Feb 2024 - Kevin Marson

TRUCK AND EQUIPMENT SOLUTION
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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.