



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
14 CEDAR ST, HALIBURTON 0517458 BELL CANADA PE402FR020202
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006127	PN0004684	PN0003205
Sample Date		Client Info		08 May 2024	05 Apr 2023	27 Jan 2022
Machine Age	hrs	Client Info		50	392	365
Oil Age	hrs	Client Info		10	0	0
Filter Age	hrs	Client Info		10	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	1	6	7
Chromium	ppm	ASTM D5185(m)	>11	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<1	3	3
Lead	ppm	ASTM D5185(m)	>26	0	0	0
Copper	ppm	ASTM D5185(m)	>26	1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

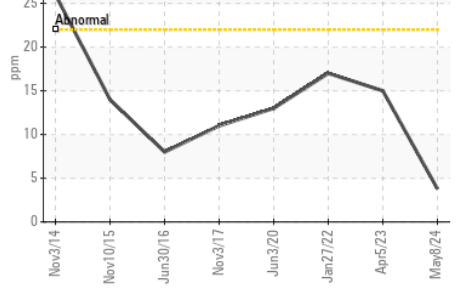
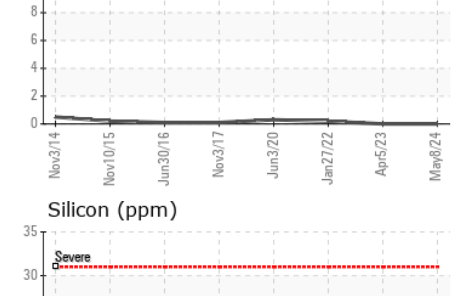
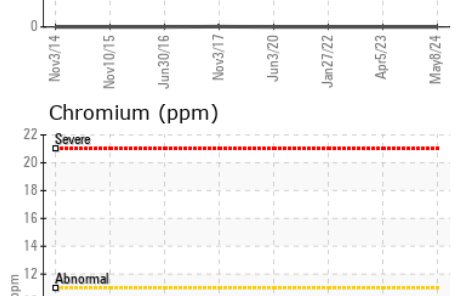
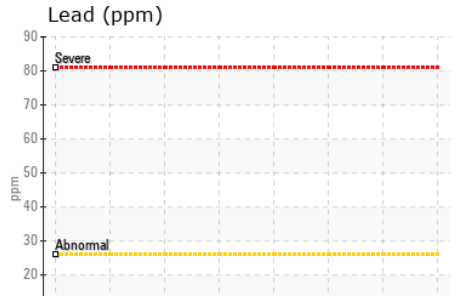
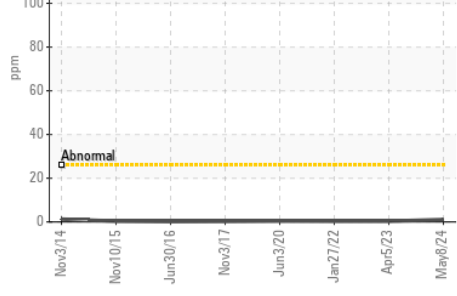
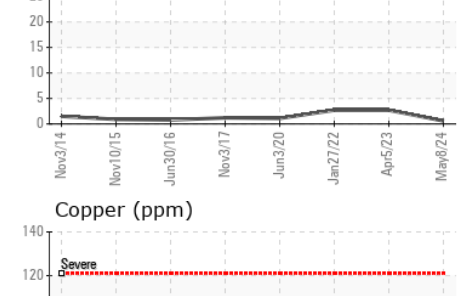
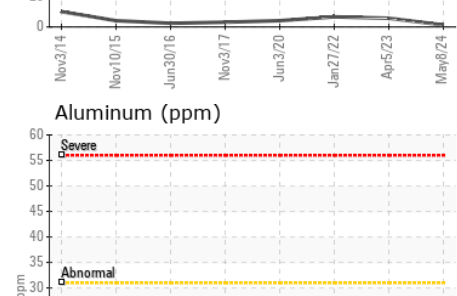
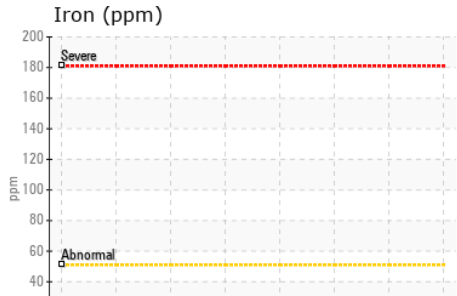
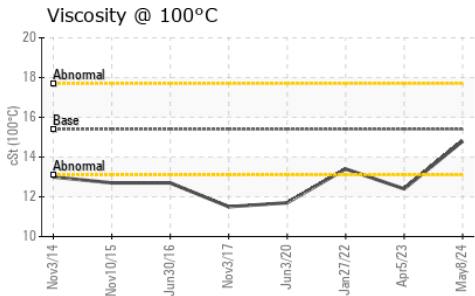
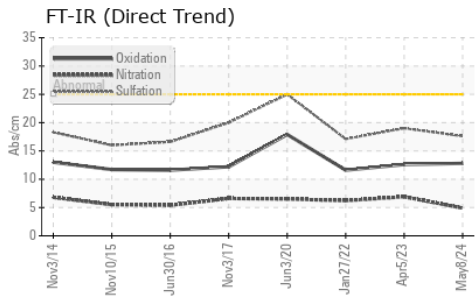
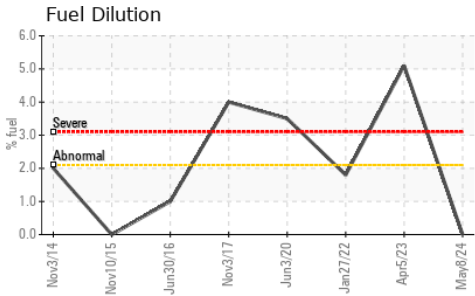
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	4	15	17
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>2.1	0.0	▲ 5.1	1.8
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.9	6.9	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	19.0	17.1
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	1	3	3
Boron	ppm	ASTM D5185(m)		12	63	64
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		61	77	78
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		815	113	130
Calcium	ppm	ASTM D5185(m)	3780	1189	2122	2004
Phosphorus	ppm	ASTM D5185(m)	1370	998	1007	1004
Zinc	ppm	ASTM D5185(m)	1500	1156	1065	1118
Sulfur	ppm	ASTM D5185(m)	3800	2680	3077	3038
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.8	12.6	11.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.8	▲ 12.4	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006127 **Received** : 21 May 2024
Lab Number : 02636537 **Tested** : 22 May 2024
Unique Number : 5785699 **Diagnosed** : 22 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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.