



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
865 PHARMACY AVE, TORONTO BELL CANADA 64-4503756

Component
Left Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (42 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006152	PN0004502	PN989007
Sample Date		Client Info		02 May 2024	05 Apr 2023	04 Jan 2017
Machine Age	hrs	Client Info		19	46	44
Oil Age	hrs	Client Info		4	0	20
Filter Age	hrs	Client Info		4	0	20
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	1	3	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>40	0	2	1
Copper	ppm	ASTM D5185(m)	>330	1	4	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

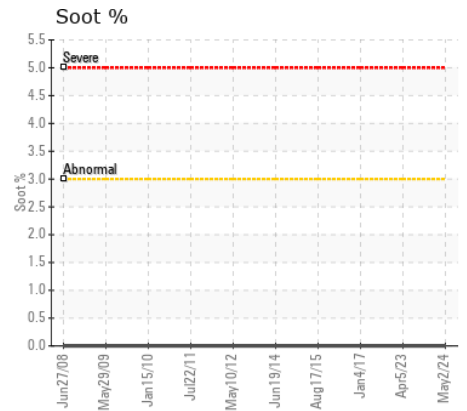
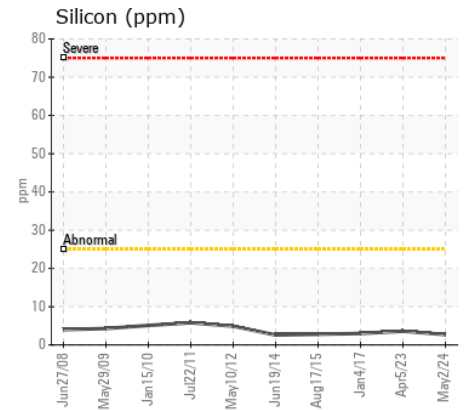
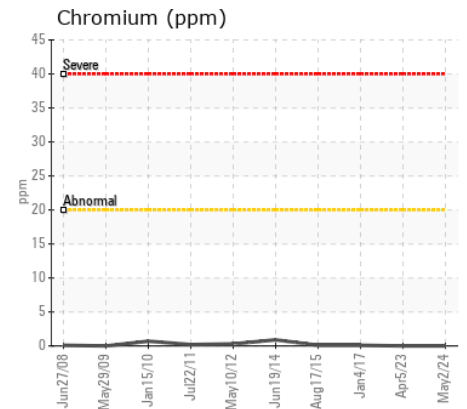
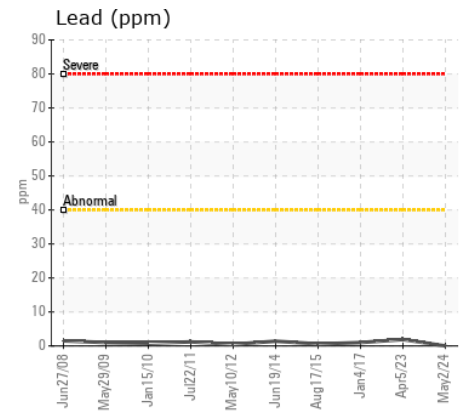
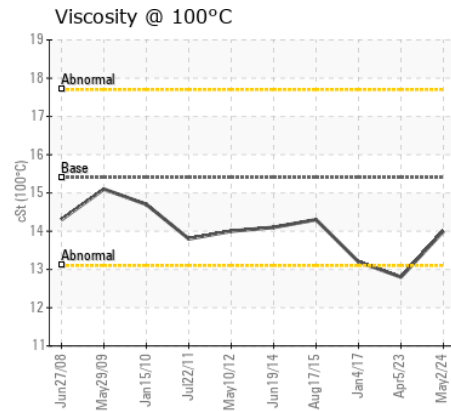
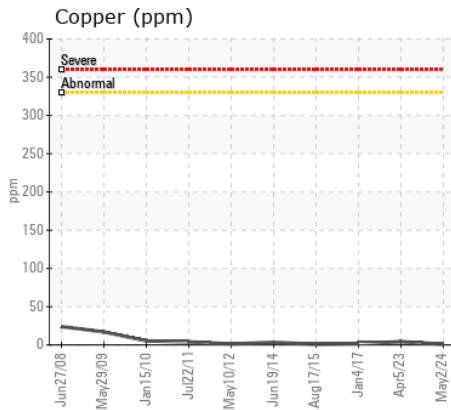
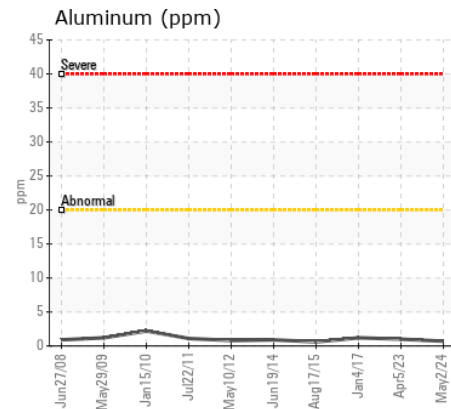
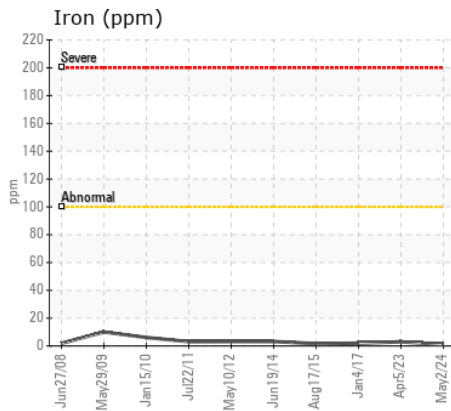
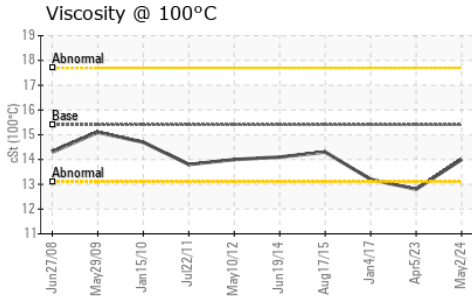
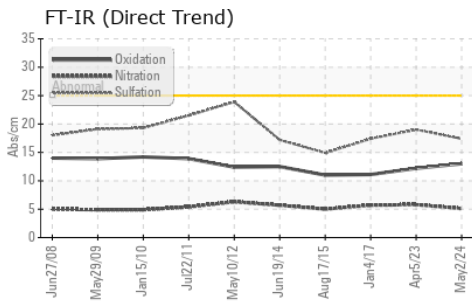
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Potassium	ppm	ASTM D5185(m)	>20	0	2	<1
Fuel		WC Method	>5	<1.0	▲ 2.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.1	5.8	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.4	19.0	17.4
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)	>192	2	4	3
Boron	ppm	ASTM D5185(m)		17	11	18
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		51	58	40
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		836	810	735
Calcium	ppm	ASTM D5185(m)	3780	1160	1292	1278
Phosphorus	ppm	ASTM D5185(m)	1370	969	1065	999
Zinc	ppm	ASTM D5185(m)	1500	1126	1144	1210
Sulfur	ppm	ASTM D5185(m)	3800	2646	2821	2830
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	12.2	11.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	12.8	13.2



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006152
Lab Number : 02633793
Unique Number : 5774946
Test Package : MOB 1

Received : 07 May 2024
Tested : 07 May 2024
Diagnosed : 07 May 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.