



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86833]

Machine Id

3900 EBENEZER RD, BRAMPTON MCVEAN DR-WASTE REGION OF PEEL K070127415

Component

Left Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (160 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006296	PN0295562	PN993416
Sample Date		Client Info		05 Jun 2024	12 Jun 2018	14 Jun 2017
Machine Age	hrs	Client Info		342	245	228
Oil Age	hrs	Client Info		18	16	0
Filter Age	hrs	Client Info		18	16	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	1	1	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
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	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

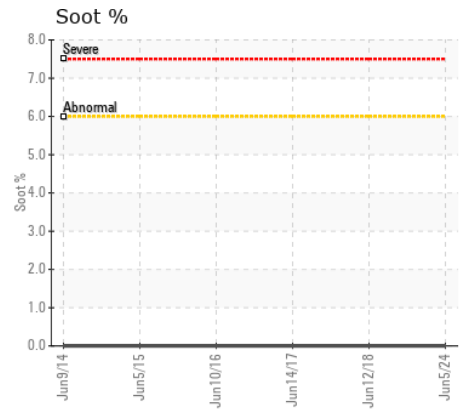
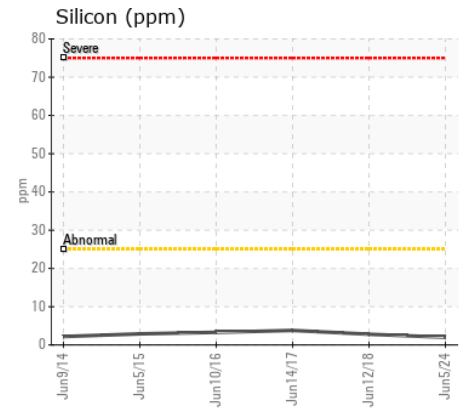
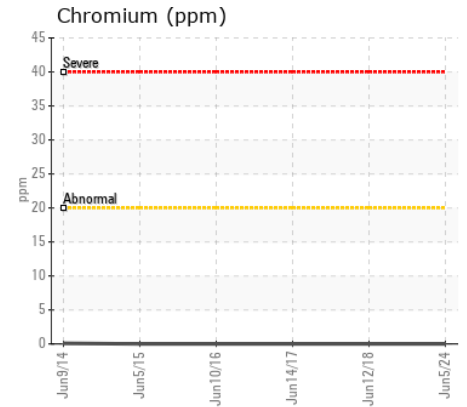
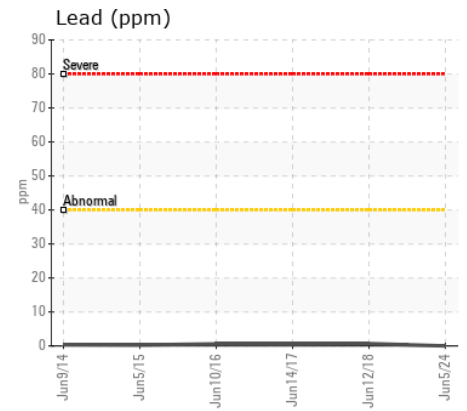
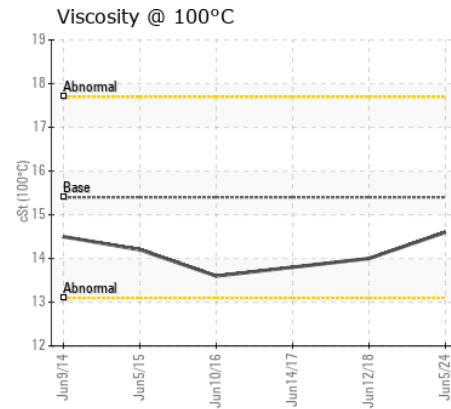
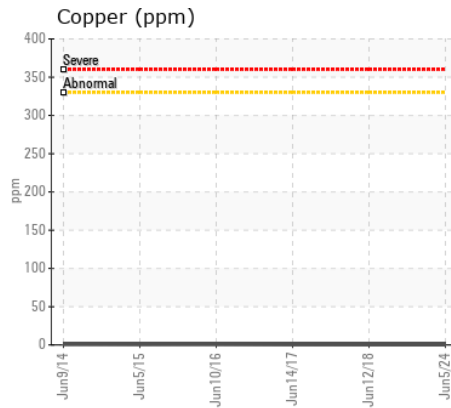
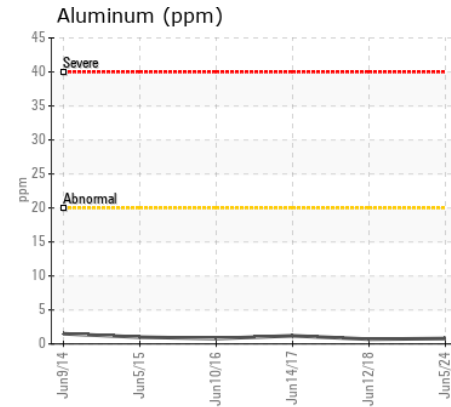
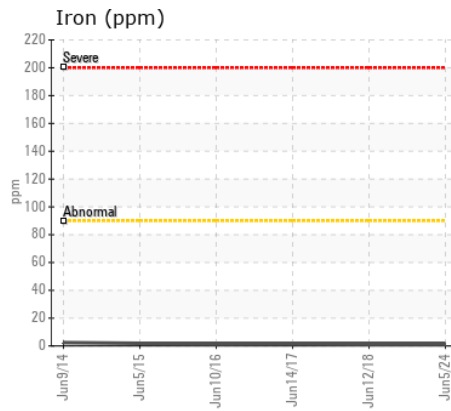
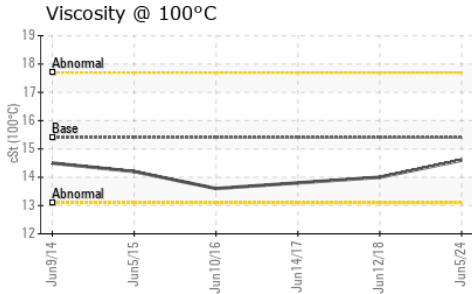
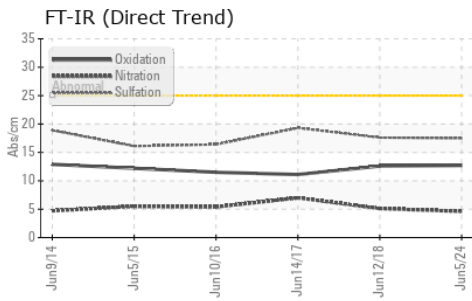
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.6	5.1	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	17.6	19.3
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	LIGHT
Sand/Dirt	scalar	Visual*	NONE	LIGHT	---	NONE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	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)	>192	2	1	1
Boron	ppm	ASTM D5185(m)		11	2	5
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		54	42	7
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		839	695	131
Calcium	ppm	ASTM D5185(m)	3780	1165	1300	1979
Phosphorus	ppm	ASTM D5185(m)	1370	978	1004	865
Zinc	ppm	ASTM D5185(m)	1500	1146	1164	1017
Sulfur	ppm	ASTM D5185(m)	3800	2607	2778	2627
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.7	12.6	11.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.6	14.0	13.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006296 **Received** : 11 Jun 2024
Lab Number : 02641031 **Tested** : 11 Jun 2024
Unique Number : 5798570 **Diagnosed** : 11 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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