



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2 HULL ST MISSISSAUGA REGION OF PEEL 88L0013200

Component
Left Natural Gas Engine

Fluid
ESSO XD-3 EXTRA 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006214	PN0003719	PN0002571
Sample Date		Client Info		18 Jun 2024	16 Jun 2022	15 Jun 2021
Machine Age	hrs	Client Info		107	60	30
Oil Age	hrs	Client Info		14	30	0
Filter Age	hrs	Client Info		14	30	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	8	13	13
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	2	3
Lead	ppm	ASTM D5185(m)	>30	0	1	2
Copper	ppm	ASTM D5185(m)	>35	1	3	7
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

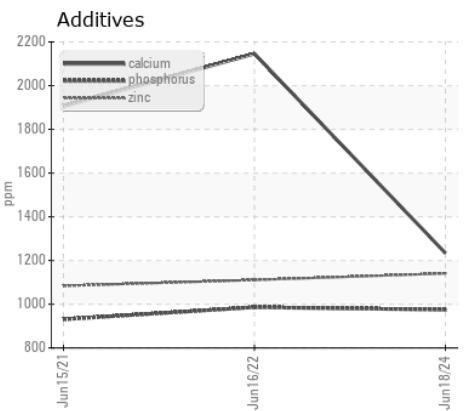
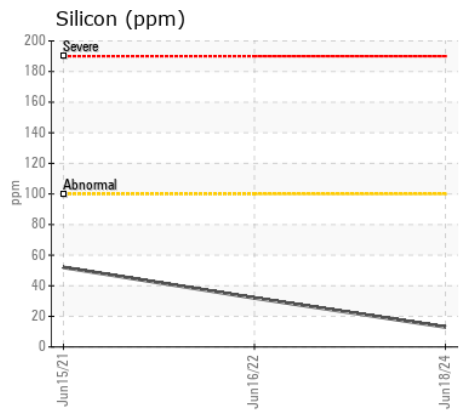
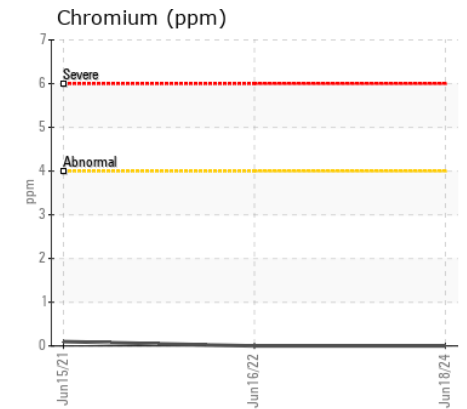
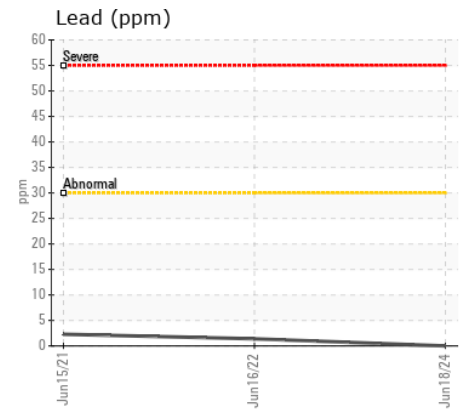
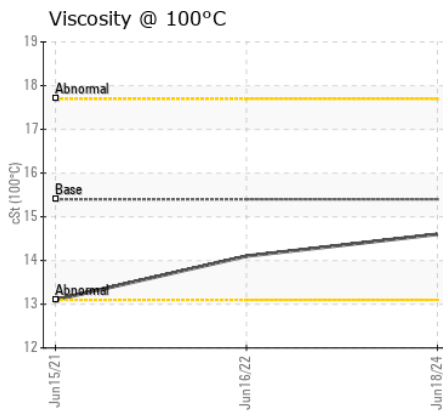
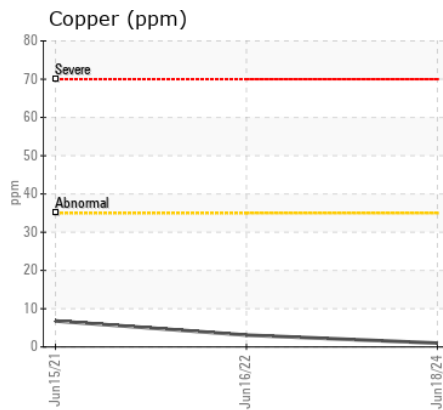
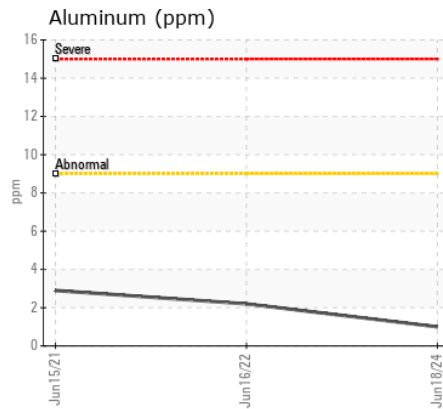
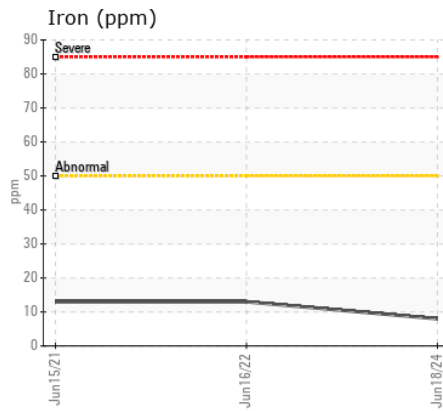
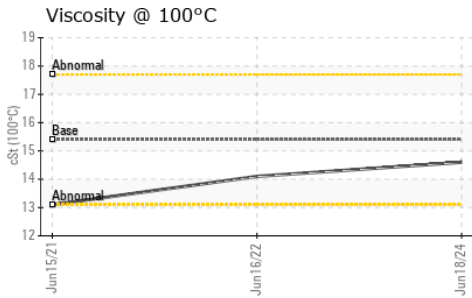
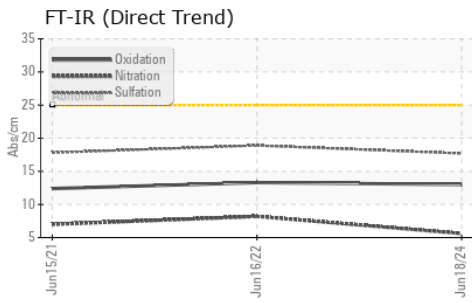
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	13	32	52
Potassium	ppm	ASTM D5185(m)	>20	0	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.6	8.2	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	18.9	17.8
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	VLITE	---	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	VLITE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	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	67	70
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		50	75	94
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		763	42	116
Calcium	ppm	ASTM D5185(m)	3780	1234	2146	1906
Phosphorus	ppm	ASTM D5185(m)	1370	975	986	931
Zinc	ppm	ASTM D5185(m)	1500	1141	1111	1084
Sulfur	ppm	ASTM D5185(m)	3800	2620	3183	2960
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	13.3	12.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.6	14.1	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006214 **Received** : 25 Jun 2024
Lab Number : 02644027 **Tested** : 25 Jun 2024
Unique Number : 5801566 **Diagnosed** : 25 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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