



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
[86681]
 Machine Id
3300 BAYVIEW AVE CITY OF TORONTO PSI39001063
 Component
Rear Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (4 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006194	PN0005476	PN0004851
Sample Date		Client Info		25 Jun 2024	27 Nov 2023	12 Jun 2023
Machine Age	hrs	Client Info		173	141	146
Oil Age	hrs	Client Info		146	13	15
Filter Age	hrs	Client Info		146	13	15
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	11	6	8
Chromium	ppm	ASTM D5185(m)	>4	<1	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	4	2	6
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>35	2	1	2
Tin	ppm	ASTM D5185(m)	>4	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	VLITE	---	NONE

CONTAMINATION

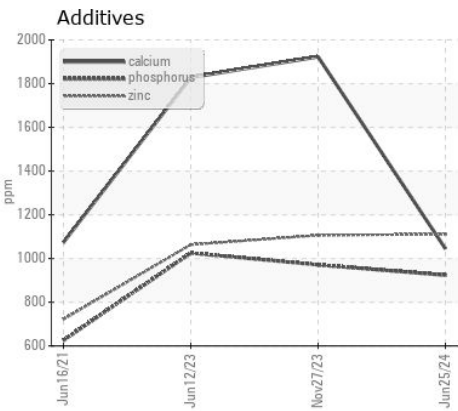
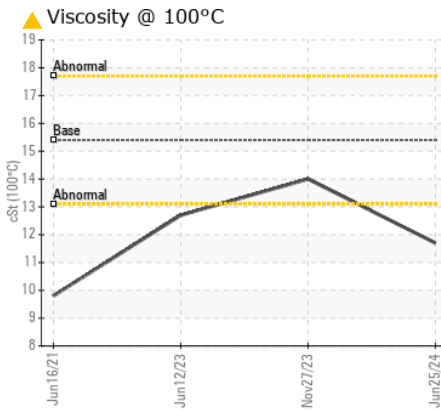
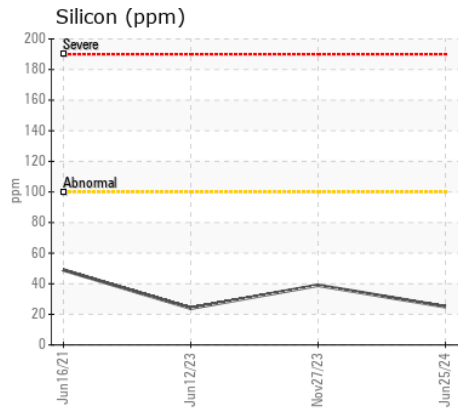
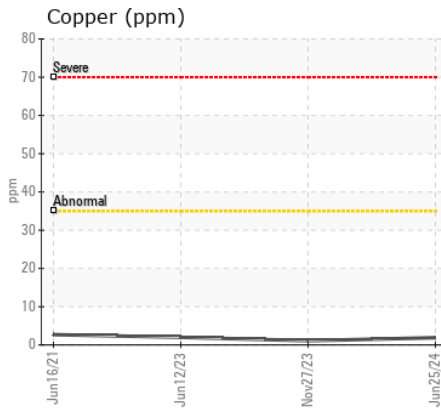
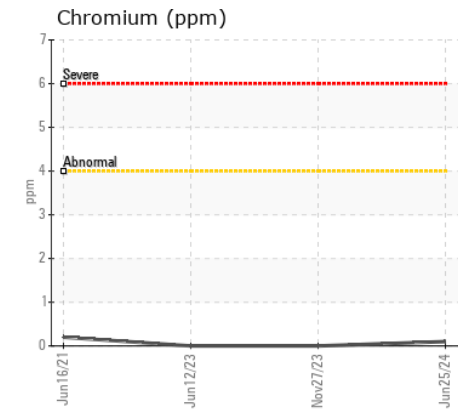
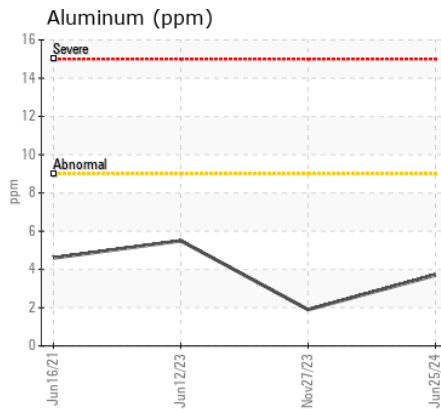
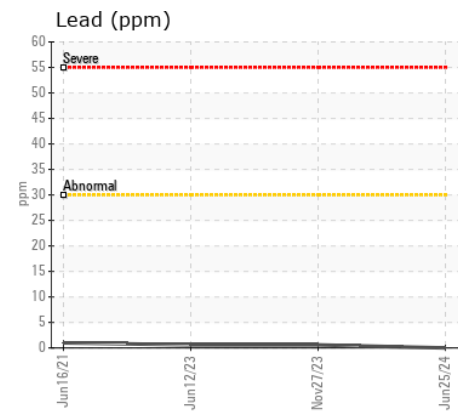
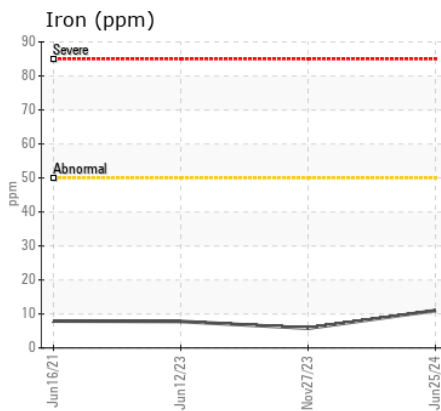
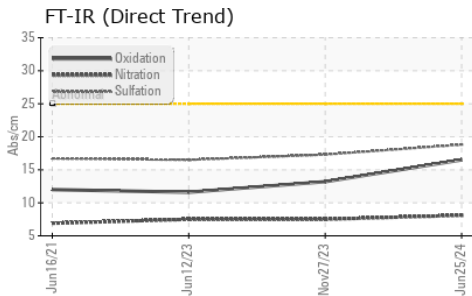
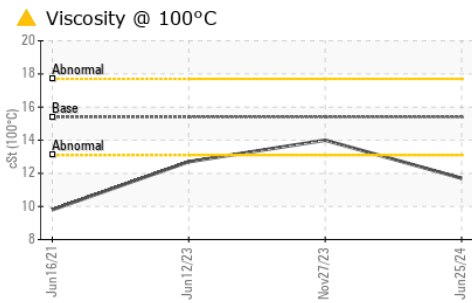
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	25	39	24
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.1	7.5	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	17.3	16.5
Silt	scalar	Visual*	NONE	NONE	---	NONE
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*	>0.1	NEG	.2%	.2%

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	3	2	1
Boron	ppm	ASTM D5185(m)		53	54	72
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		50	27	20
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)		809	134	147
Calcium	ppm	ASTM D5185(m)	3780	1045	1923	1828
Phosphorus	ppm	ASTM D5185(m)	1370	924	971	1025
Zinc	ppm	ASTM D5185(m)	1500	1111	1106	1063
Sulfur	ppm	ASTM D5185(m)	3800	2729	3144	3070
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	13.2	11.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.7	14.0	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006194 **Received** : 28 Jun 2024
Lab Number : 02644552 **Tested** : 28 Jun 2024
Unique Number : 5802091 **Diagnosed** : 28 Jun 2024 - Kevin Marson
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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