



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
187 DAVIS ST, PORT COLBOURNE INCO 100092EEYOD
 Component
Rear Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005845	PN0003474	PN0002406
Sample Date		Client Info		12 Apr 2024	12 Apr 2022	12 Apr 2021
Machine Age	hrs	Client Info		1664	1489	1304
Oil Age	hrs	Client Info		0	185	126
Filter Age	hrs	Client Info		0	185	126
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	11	29	12
Chromium	ppm	ASTM D5185(m)	>4	2	▲ 6	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	4	2
Lead	ppm	ASTM D5185(m)	>30	1	3	1
Copper	ppm	ASTM D5185(m)	>35	4	9	5
Tin	ppm	ASTM D5185(m)	>4	0	1	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

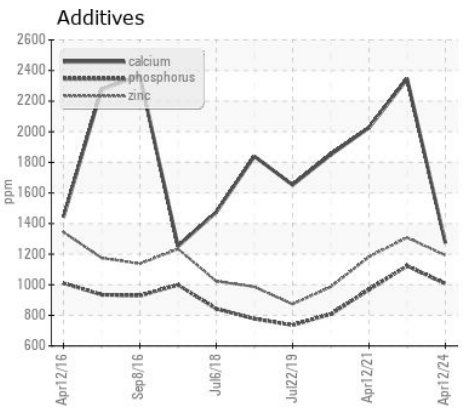
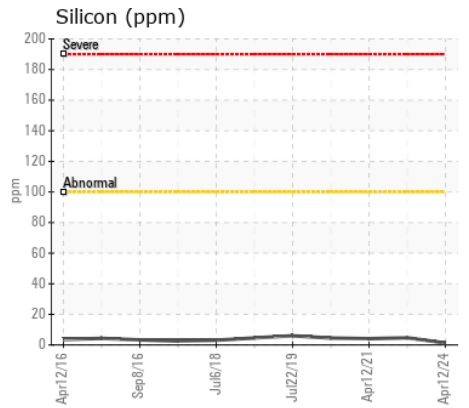
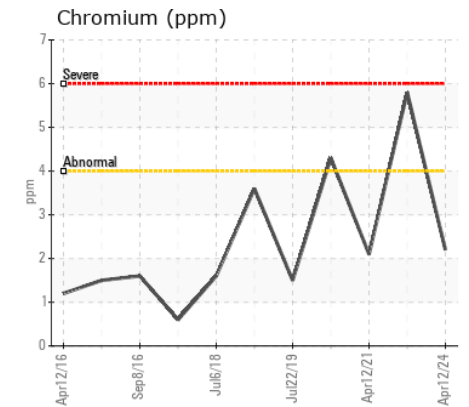
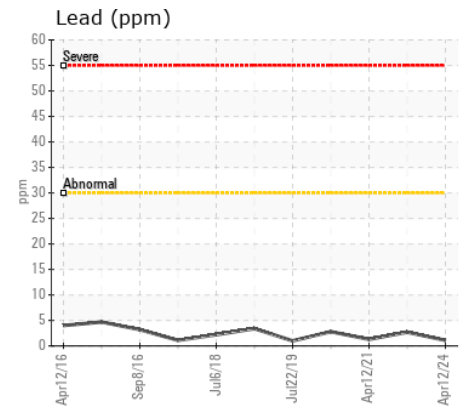
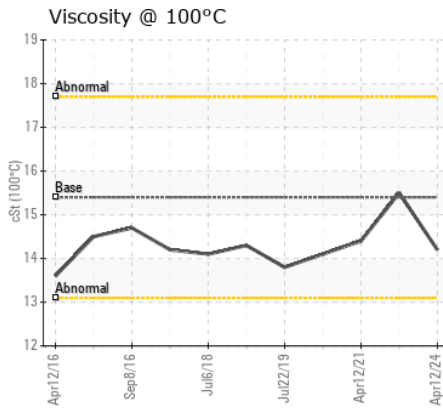
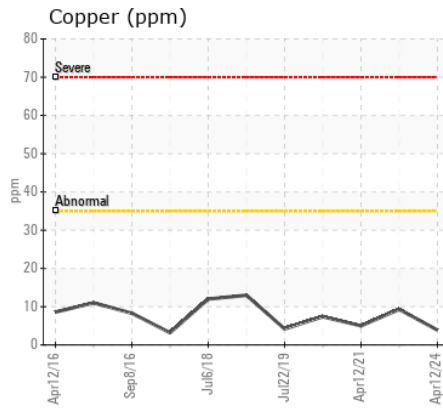
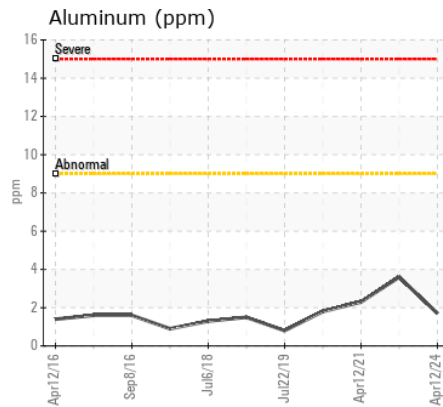
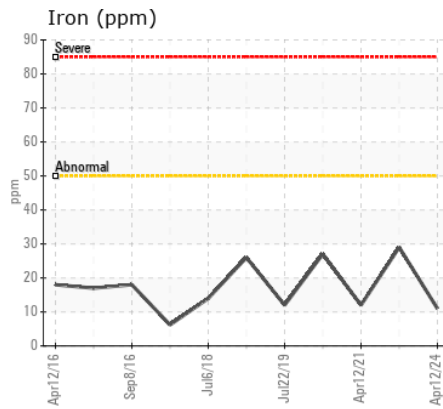
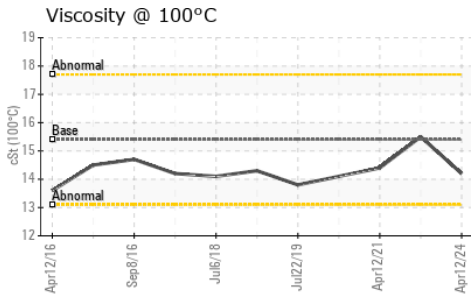
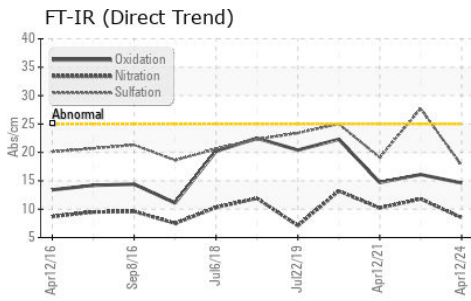
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	1	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.5	11.8	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	27.7	19.1
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	.2%	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)		4	8	23
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		65	93	77
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)		828	45	245
Calcium	ppm	ASTM D5185(m)	3780	1273	2345	2026
Phosphorus	ppm	ASTM D5185(m)	1370	1007	1123	968
Zinc	ppm	ASTM D5185(m)	1500	1192	1308	1182
Sulfur	ppm	ASTM D5185(m)	3800	2668	3274	3261
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	16.1	14.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	15.5	14.4



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005845 **Received** : 22 Apr 2024
Lab Number : 02630565 **Tested** : 23 Apr 2024
Unique Number : 5763697 **Diagnosed** : 23 Apr 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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