



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
[83617]
 Machine Id
3770 VICTORIA PARK MULTI HEALTH EPSIB8.80EMT
 Component
Rear Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 10W30 (8 LTR)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005770	PN0004449	PN0002356
Sample Date		Client Info		15 Feb 2024	22 Dec 2022	26 May 2021
Machine Age	hrs	Client Info		77	41	34
Oil Age	hrs	Client Info		36	6	0
Filter Age	hrs	Client Info		36	6	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	6	7	5
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	2	3	3
Lead	ppm	ASTM D5185(m)	>30	2	1	1
Copper	ppm	ASTM D5185(m)	>35	7	3	3
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

The water content is negligible. Test for glycol is negative. There is no indication of any contamination in the oil.

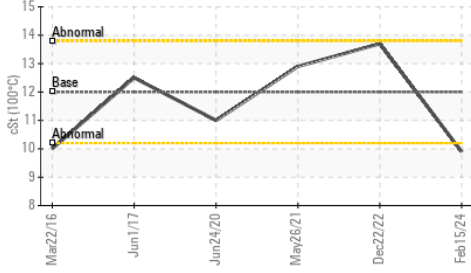
Silicon	ppm	ASTM D5185(m)	>+100	19	16	16
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water	%	ASTM D6304*	>0.1	0.095	---	---
ppm Water	ppm	ASTM D6304*	>1000	960	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.1	8.0	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.8	18.1	17.4
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	.5%	NEG	NEG

FLUID CONDITION

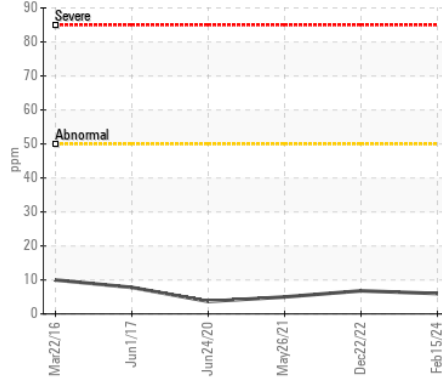
The white residue present in the sample is oil additive precipitate. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	3	6
Boron	ppm	ASTM D5185(m)		123	72	73
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		76	84	84
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		416	86	158
Calcium	ppm	ASTM D5185(m)	2360	1293	2141	2000
Phosphorus	ppm	ASTM D5185(m)	1110	796	1068	986
Zinc	ppm	ASTM D5185(m)	1220	857	1111	1136
Sulfur	ppm	ASTM D5185(m)		2826	3200	3148
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.6	13.2	12.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.0	▲ 9.9	13.7	12.9

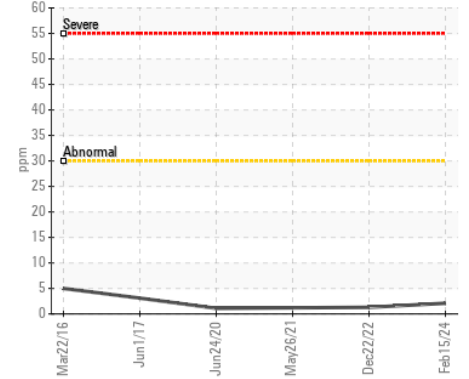
▲ Viscosity @ 100°C



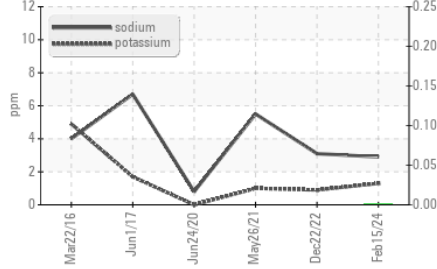
Iron (ppm)



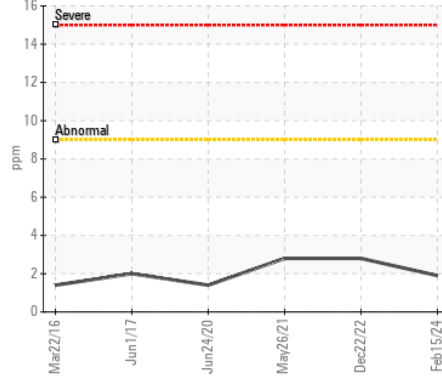
Lead (ppm)



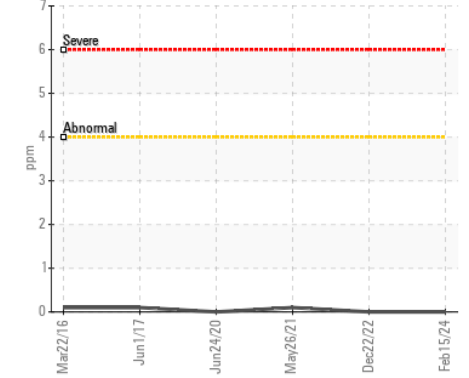
Glycol Contamination



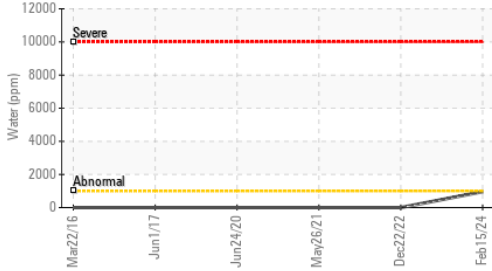
Aluminum (ppm)



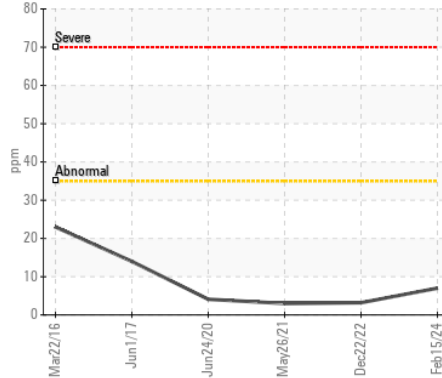
Chromium (ppm)



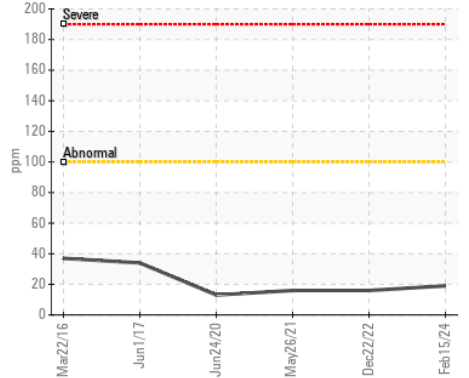
Water (KF)



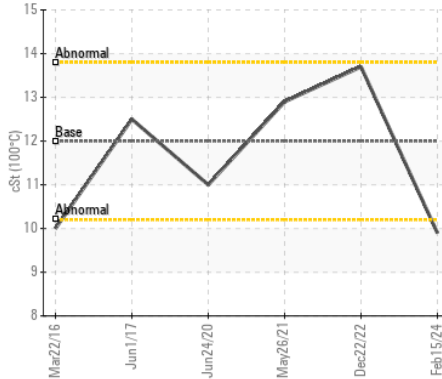
Copper (ppm)



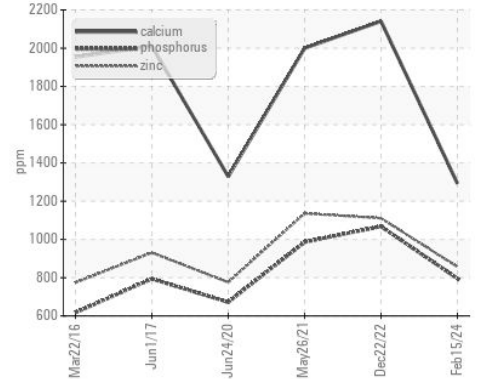
Silicon (ppm)



▲ Viscosity @ 100°C



Additives



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : PN0005770

Lab Number : 02617005

Unique Number : 5734115

Test Package : MOB 1 (Additional Tests: Bottom, Glycol, KF, Visual)

Received : 21 Feb 2024

Tested : 22 Feb 2024

Diagnosed : 22 Feb 2024 - Kevin Marson

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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