



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[83654]
 Machine Id
19 GREEN BELT DR NORTH YORK EA GROUP 62B10434

Component
Rear Diesel 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		PN0005739	PN0004421	---
Sample Date		Client Info		05 Jan 2024	19 Dec 2022	---
Machine Age	hrs	Client Info		106	102	---
Oil Age	hrs	Client Info		102	0	---
Filter Age	hrs	Client Info		102	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	1	2	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)	>2	1	5	---
Silver	ppm	ASTM D5185(m)	>2	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	2	1	---
Lead	ppm	ASTM D5185(m)	>40	8	18	---
Copper	ppm	ASTM D5185(m)	>330	311	798	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

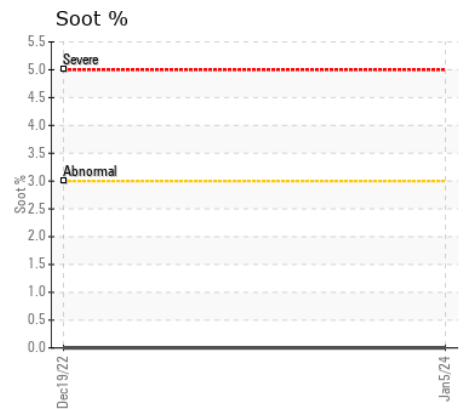
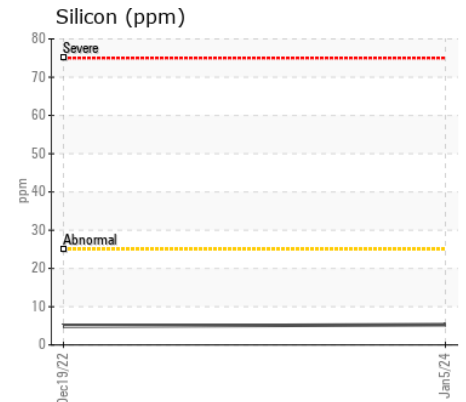
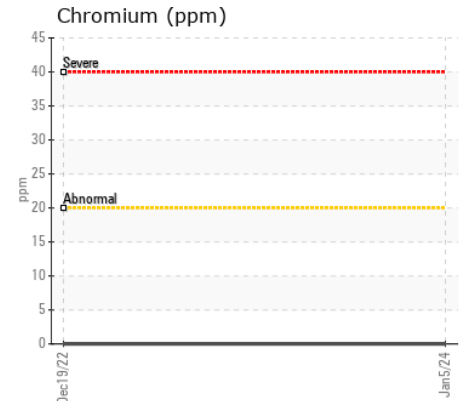
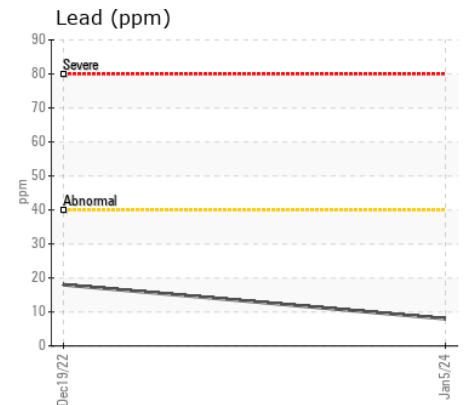
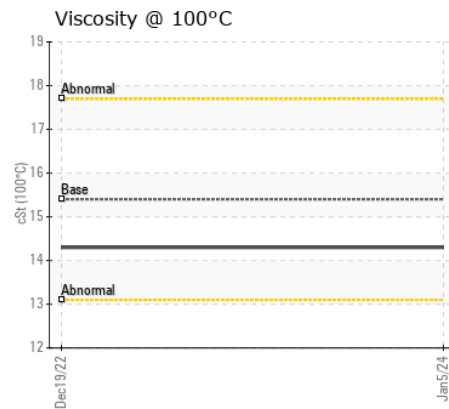
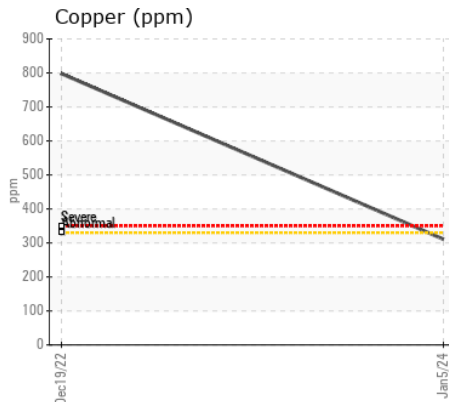
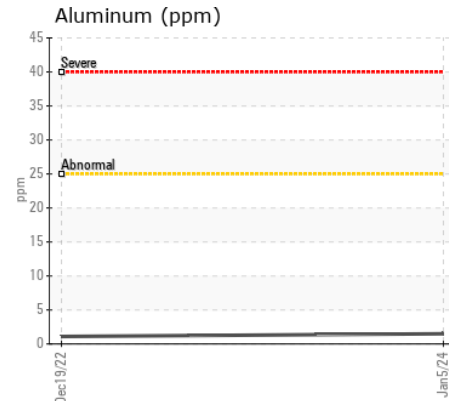
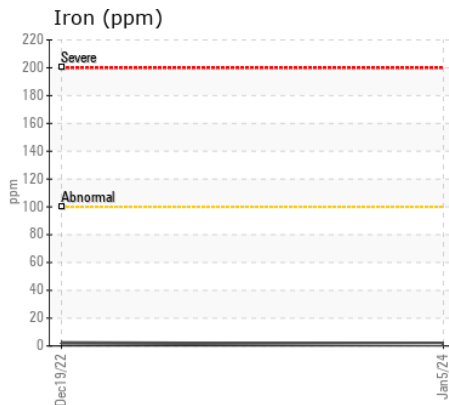
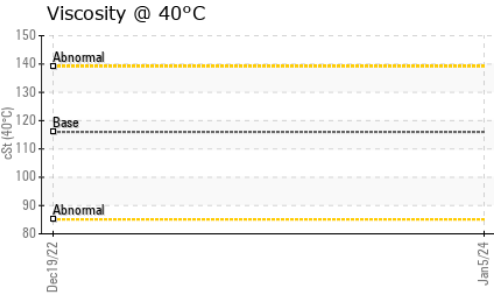
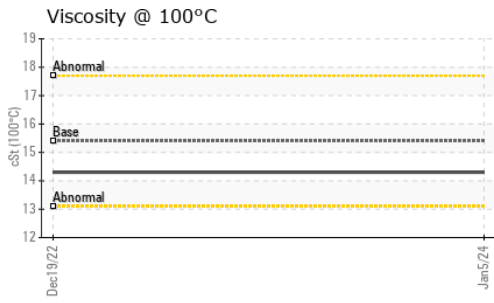
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.7	4.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	16.0	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	2	5	---
Boron	ppm	ASTM D5185(m)		52	50	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		30	46	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		429	670	---
Calcium	ppm	ASTM D5185(m)	3780	1676	1525	---
Phosphorus	ppm	ASTM D5185(m)	1370	1002	1090	---
Zinc	ppm	ASTM D5185(m)	1500	1119	1170	---
Sulfur	ppm	ASTM D5185(m)	3800	3066	2754	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	9.8	---
Visc @ 40°C	cSt	ASTM D7279(m)	116	103	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	140	142	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005739 **Received** : 09 Jan 2024
Lab Number : 02607451 **Diagnosed** : 09 Jan 2024
Unique Number : 5708537 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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