



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[83742]

Machine Id

6335 EDWARDS BLVD MISS, PUMP ROOM KUEHNE & NAGEL 03Z17158

Component

Left Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (25 LTR)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005664</b>	PN0004516	PN0003389
Sample Date		Client Info		<b>11 Jan 2024</b>	20 Jan 2023	03 Mar 2022
Machine Age	hrs	Client Info		<b>395</b>	380	366
Oil Age	hrs	Client Info		<b>16</b>	14	3
Filter Age	hrs	Client Info		<b>16</b>	14	3
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	1	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

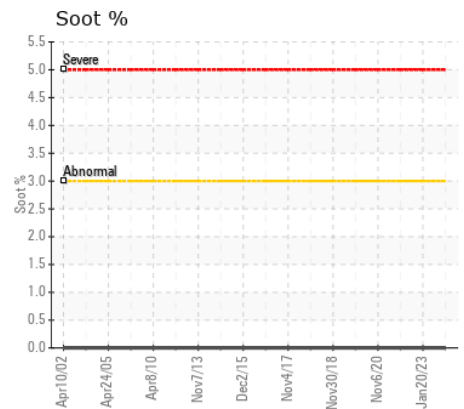
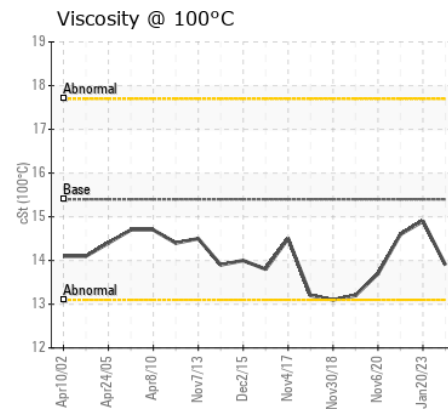
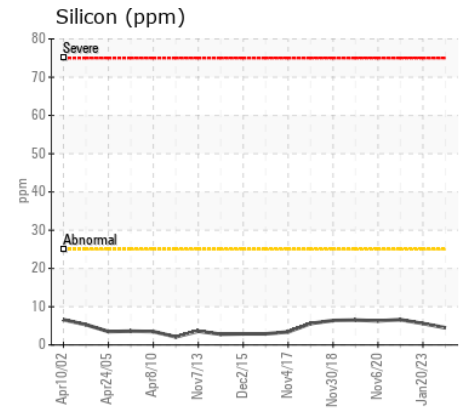
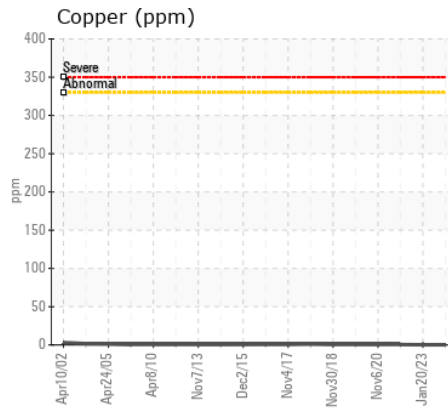
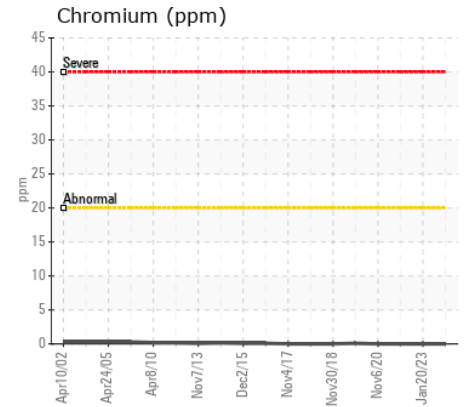
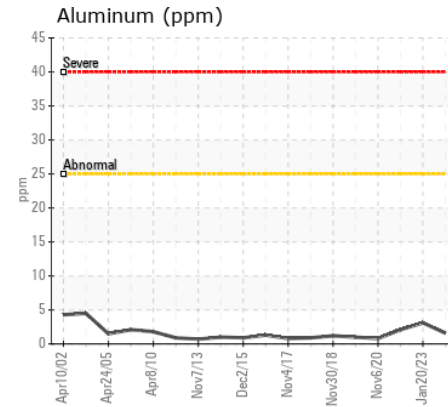
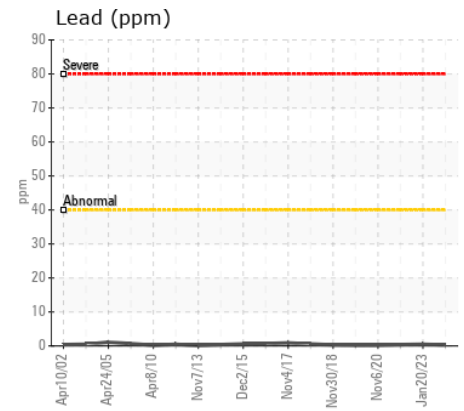
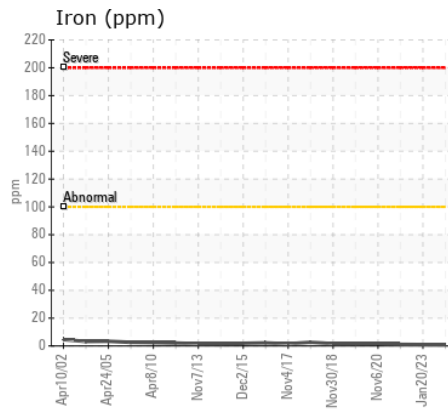
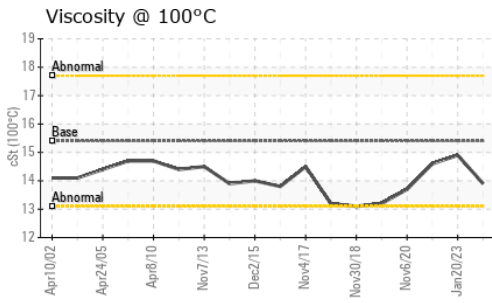
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	7.4	3.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.2</b>	18.3	13.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>61</b>	71	76
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>24</b>	86	86
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>234</b>	20	67
Calcium	ppm	ASTM D5185(m)	3780	<b>1862</b>	2224	2149
Phosphorus	ppm	ASTM D5185(m)	1370	<b>982</b>	1096	1052
Zinc	ppm	ASTM D5185(m)	1500	<b>1093</b>	1165	1171
Sulfur	ppm	ASTM D5185(m)	3800	<b>3280</b>	3289	3273
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.1</b>	13.3	6.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	14.9	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005664 **Received** : 16 Jan 2024  
**Lab Number** : 02608961 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5710047 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.