



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

Machine Id  
**6881 VALLEY DR NIAGARA FALLS CON MED HEALTH 46346382**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (20 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005641</b>	PN0004442	PN0003157
Sample Date		Client Info		<b>04 Jan 2024</b>	03 Jan 2023	06 Jan 2022
Machine Age	hrs	Client Info		<b>190</b>	185	182
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
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)	>90	<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>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

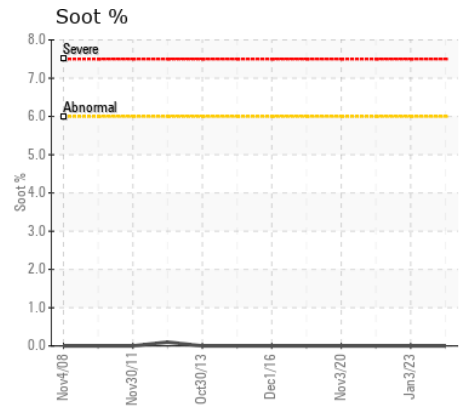
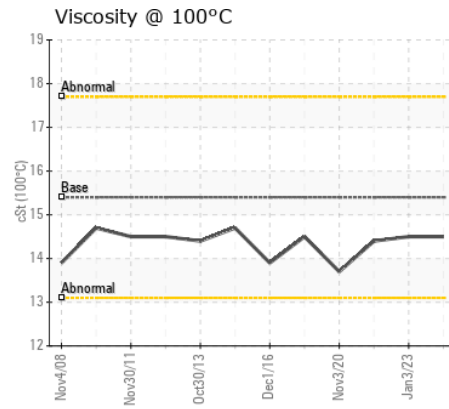
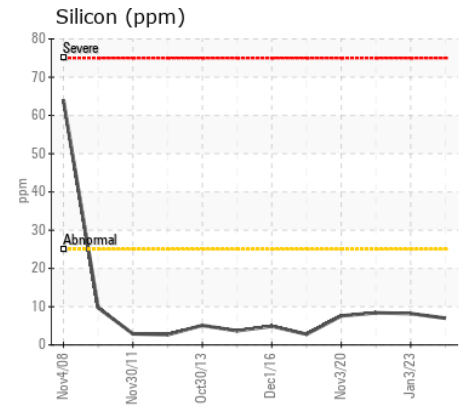
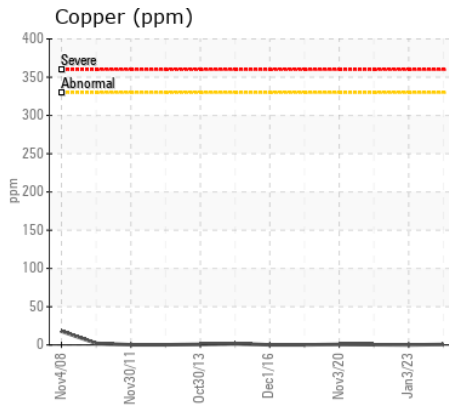
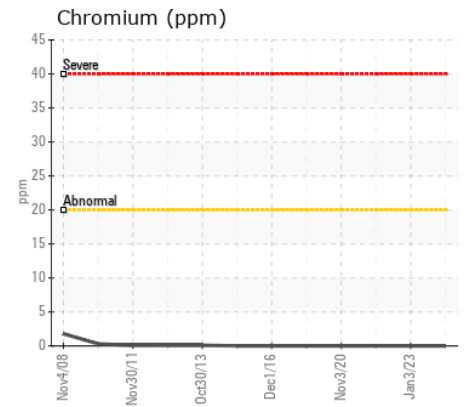
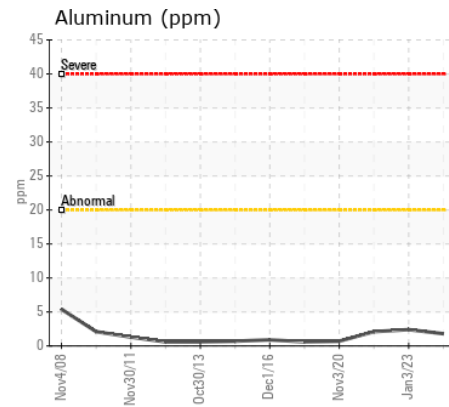
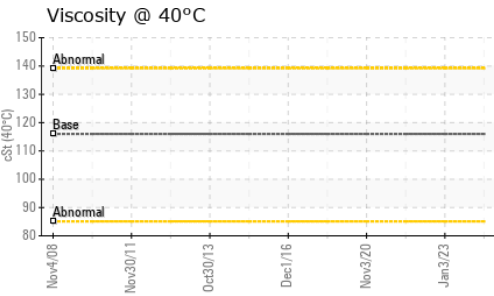
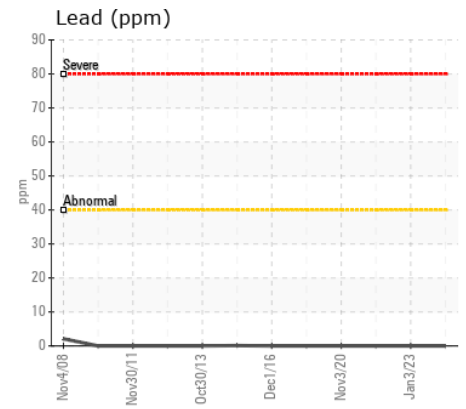
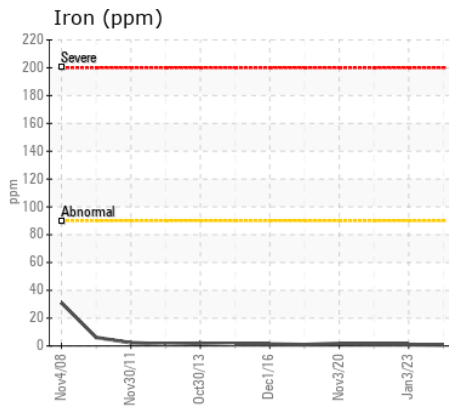
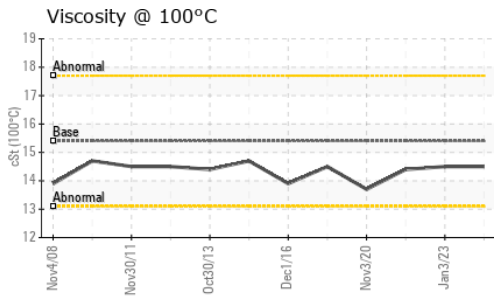
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Fuel		WC Method	>3.0	<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*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	7.3	2.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.9</b>	18.6	7.2
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>1</b>	3	2
Boron	ppm	ASTM D5185(m)		<b>69</b>	77	77
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>20</b>	83	73
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>44</b>	25	143
Calcium	ppm	ASTM D5185(m)	3780	<b>2047</b>	2218	2002
Phosphorus	ppm	ASTM D5185(m)	1370	<b>991</b>	1053	1001
Zinc	ppm	ASTM D5185(m)	1500	<b>1088</b>	1106	1112
Sulfur	ppm	ASTM D5185(m)	3800	<b>3425</b>	3195	3078
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.2</b>	13.4	4.7
Visc @ 40°C	cSt	ASTM D7279(m)	116	<b>107</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.5</b>	14.5	14.4
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>139</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005641 **Received** : 09 Jan 2024  
**Lab Number** : 02607452 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708538 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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.