



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

Machine Id  
**290 JOHN ST W, NIAGARA ON THE LAKE ANDREW PELLER LTD. CD4045T607522**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (12 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006019</b>	PN0004671	PN0003490
Sample Date		Client Info		<b>05 Apr 2024</b>	14 Apr 2023	06 May 2022
Machine Age	hrs	Client Info		<b>414</b>	396	380
Oil Age	hrs	Client Info		<b>18</b>	0	0
Filter Age	hrs	Client Info		<b>18</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	<b>2</b>	1	1
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	2	4
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

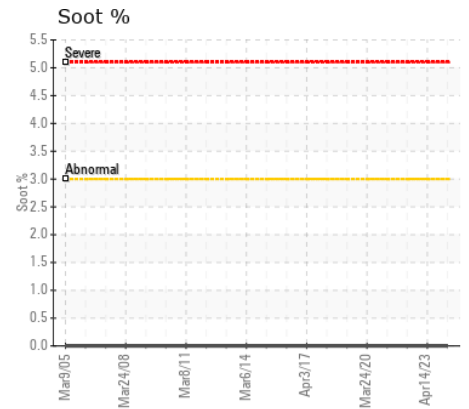
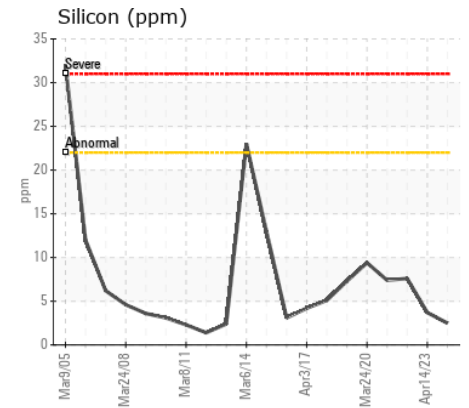
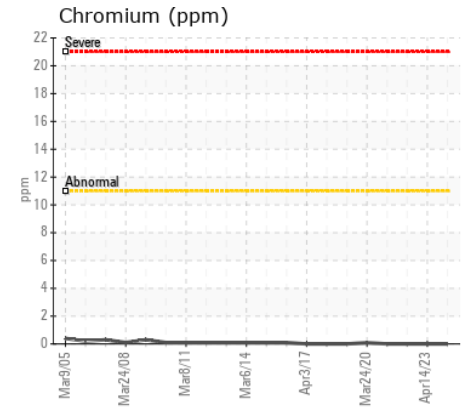
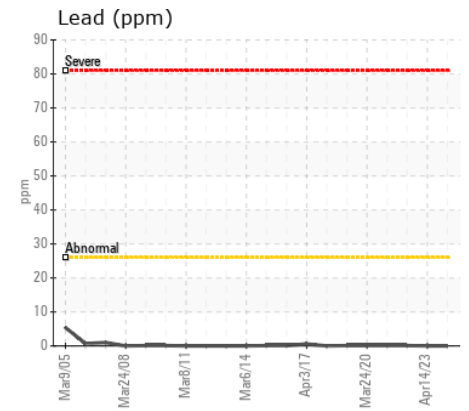
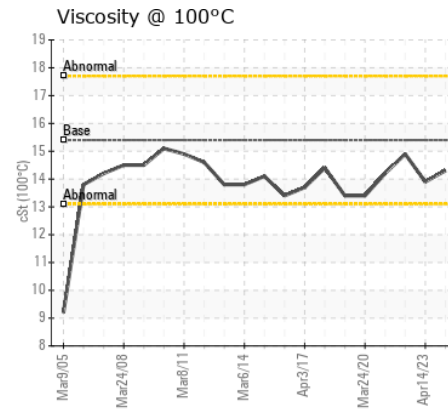
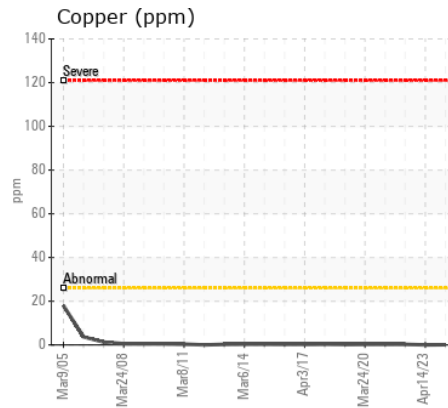
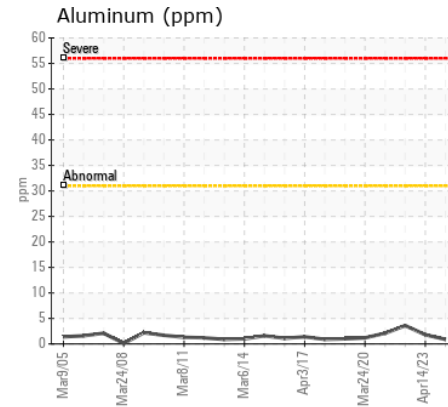
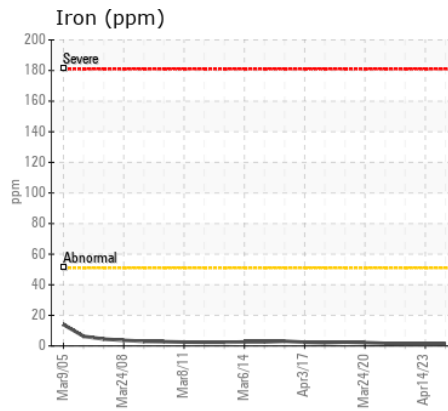
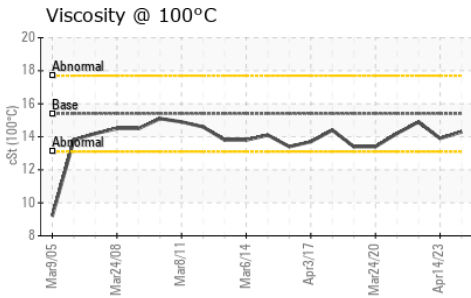
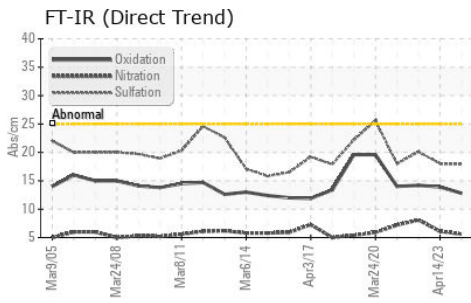
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	4	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<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>5.6</b>	6.1	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.9</b>	18.0	20.1
Emulsified Water	scalar	Visual*	>0.21	<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>2</b>	2	3
Boron	ppm	ASTM D5185(m)		<b>37</b>	45	75
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>42</b>	67	85
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)		<b>781</b>	445	32
Calcium	ppm	ASTM D5185(m)	3780	<b>1279</b>	1744	2153
Phosphorus	ppm	ASTM D5185(m)	1370	<b>908</b>	1059	1056
Zinc	ppm	ASTM D5185(m)	1500	<b>1046</b>	1120	1141
Sulfur	ppm	ASTM D5185(m)	3800	<b>2643</b>	2936	3244
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	13.9	14.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	13.9	14.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006019 **Received** : 12 Apr 2024  
**Lab Number** : 02628441 **Tested** : 15 Apr 2024  
**Unique Number** : 5761573 **Diagnosed** : 15 Apr 2024 - 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.