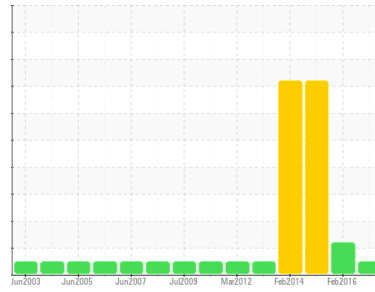




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**160 MCNABB ST MARKHAM ELECTRICAL ROOM NIELSON 4A0253612**  
 Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (22 LTR)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PN0006272</b>	PN955137	PN928927
Sample Date	Client Info		<b>01 Jun 2024</b>	19 Feb 2016	10 Feb 2015
Machine Age	hrs	Client Info	<b>433</b>	383	379
Oil Age	hrs	Client Info	<b>10</b>	3	8
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ATTENTION	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	0.0	▲ 0.10

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>120	<b>2</b>	2	3
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>0</b>	1	2
Lead	ppm	ASTM D5185(m)	>25	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m)	>40	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>13</b>	3	6
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>10</b>	2	5
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>68</b>	37	63
Calcium	ppm	ASTM D5185(m)	3780	<b>3352</b>	3258	3202
Phosphorus	ppm	ASTM D5185(m)	1370	<b>672</b>	924	976
Zinc	ppm	ASTM D5185(m)	1500	<b>735</b>	1044	1103
Sulfur	ppm	ASTM D5185(m)	3800	<b>2445</b>	3459	3744
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

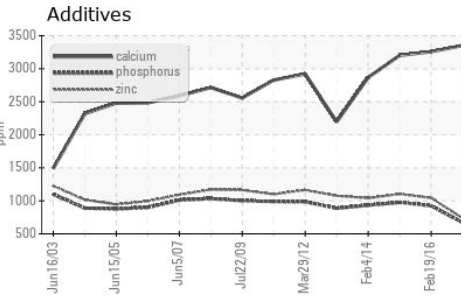
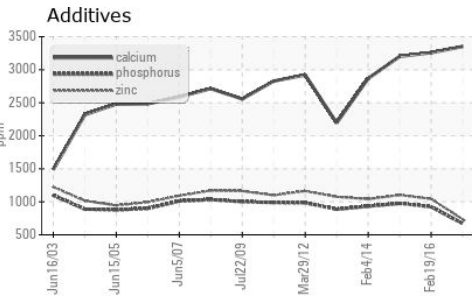
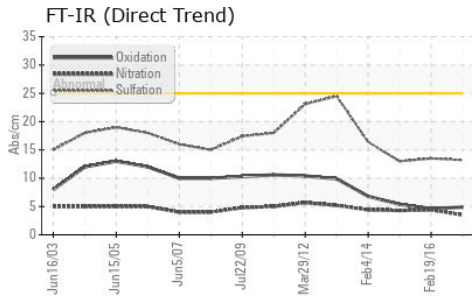
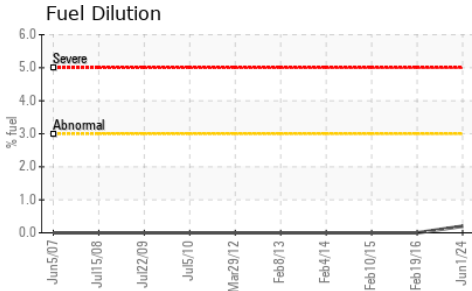
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	5	5
Sodium	ppm	ASTM D5185(m)	>192	<b>4</b>	437	444
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Fuel	%	ASTM D7593*	>3.0	<b>0.2</b>	<1.0	<1.0

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>0.8	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.5</b>	4.4	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>13.2</b>	13.5	13.0



# OIL ANALYSIS REPORT

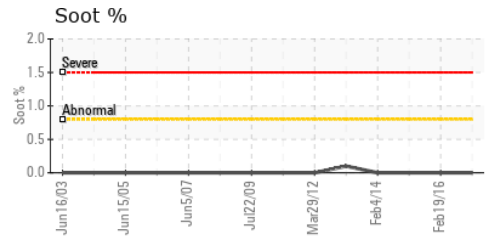
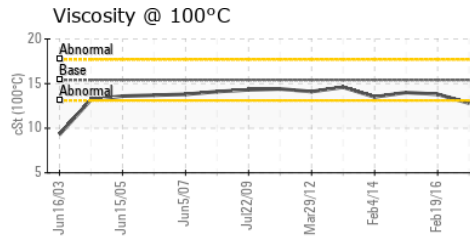
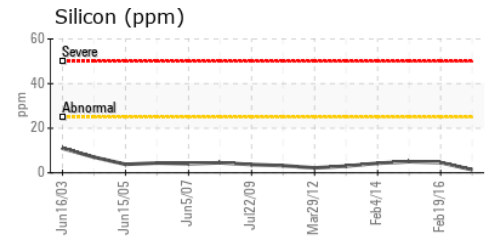
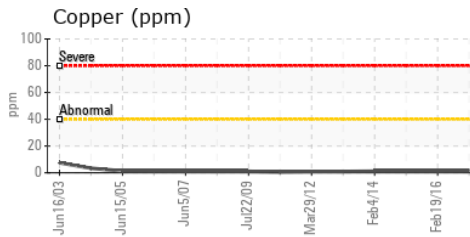
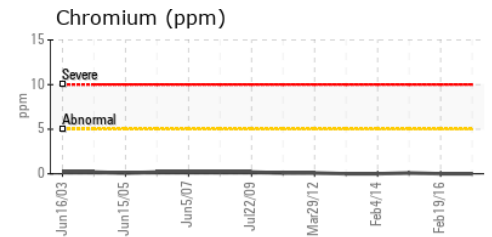
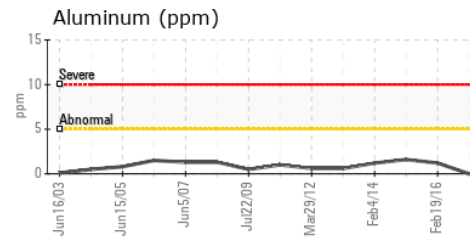
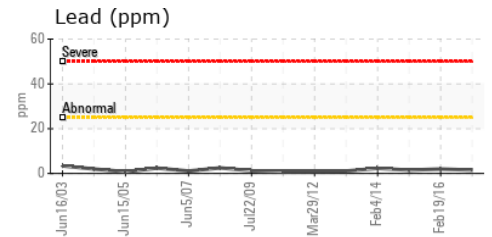
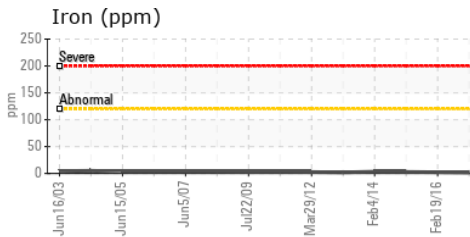


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>4.9</b>	4.6	5.4

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
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	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>12.8</b>	13.8	14.0

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006272 **Received** : 14 Jun 2024  
**Lab Number** : **02641895** **Tested** : 17 Jun 2024  
**Unique Number** : 5799434 **Diagnosed** : 17 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual )

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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