



Machine Id
160 MCNABB ST MARKHAM ELECTRICAL ROOM NIELSON 4A0253612

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (22 LTR)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006272	PN955137	PN928927
Sample Date		Client Info		01 Jun 2024	19 Feb 2016	10 Feb 2015
Machine Age	hrs	Client Info		433	383	379
Oil Age	hrs	Client Info		10	3	8
Filter Age	hrs	Client Info		10	3	8
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>120	2	2	3
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	0	1	2
Lead	ppm	ASTM D5185(m)	>25	2	2	2
Copper	ppm	ASTM D5185(m)	>40	1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

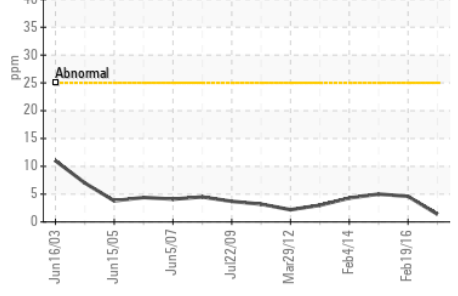
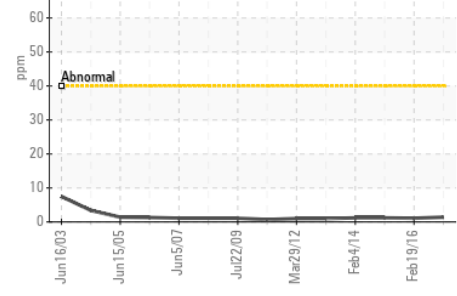
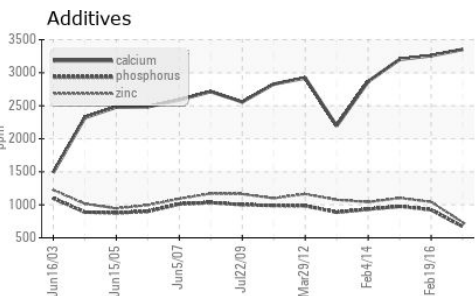
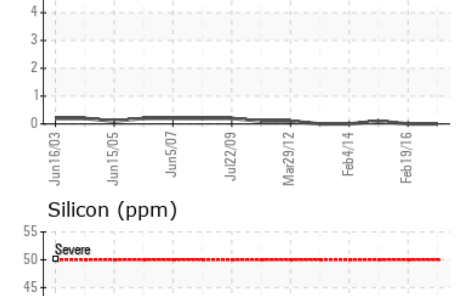
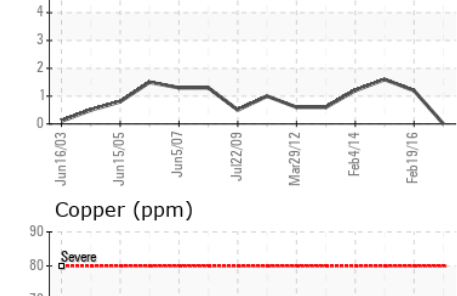
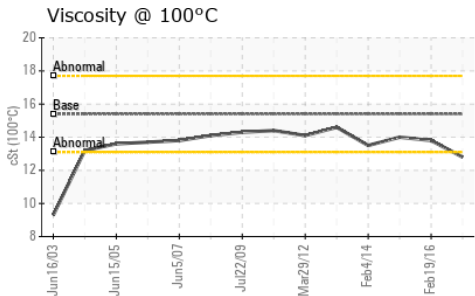
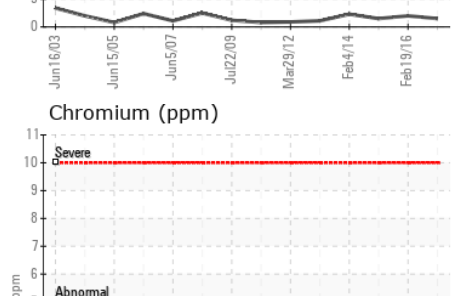
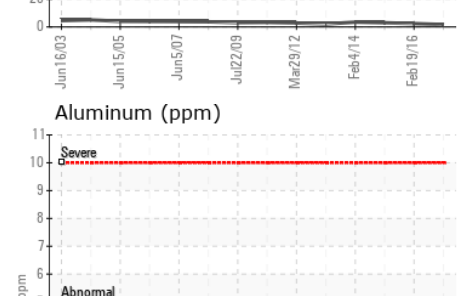
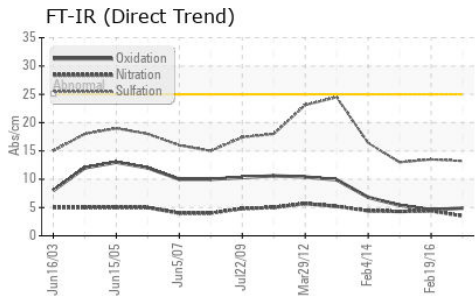
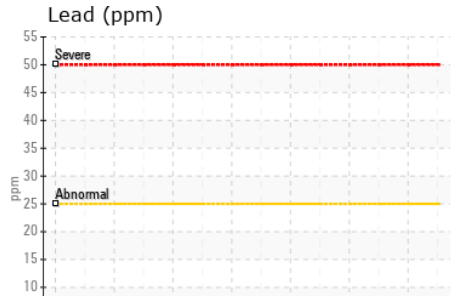
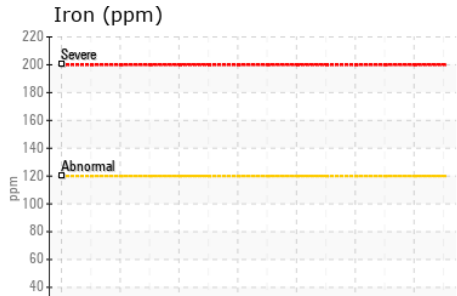
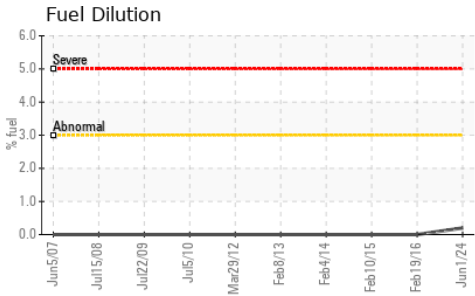
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	5	5
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel	%	ASTM D7593*	>3.0	0.2	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	▲ 0.10
Soot %	%	ASTM D7844*	>0.8	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.5	4.4	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.2	13.5	13.0
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	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)	>192	4	● 437	● 444
Boron	ppm	ASTM D5185(m)		13	3	6
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		10	2	5
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		68	37	63
Calcium	ppm	ASTM D5185(m)	3780	3352	3258	3202
Phosphorus	ppm	ASTM D5185(m)	1370	672	924	976
Zinc	ppm	ASTM D5185(m)	1500	735	1044	1103
Sulfur	ppm	ASTM D5185(m)	3800	2445	3459	3744
Oxidation	Abs/.1mm	ASTM D7414*	>25	4.9	4.6	5.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.8	13.8	14.0



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)

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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.