



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

Area

**[85235]**

Machine Id

**7289 YORK DURHAM STRAIN LTD 929984**

Component

**Right Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 (30 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005934</b>	PN0004371	PN0003367
Sample Date		Client Info		<b>01 Apr 2024</b>	08 Mar 2023	14 Mar 2022
Machine Age	hrs	Client Info		<b>157</b>	151	48
Oil Age	hrs	Client Info		<b>6</b>	0	16
Filter Age	hrs	Client Info		<b>6</b>	0	16
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>2</b>	11	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	2	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	11	6
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	2	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

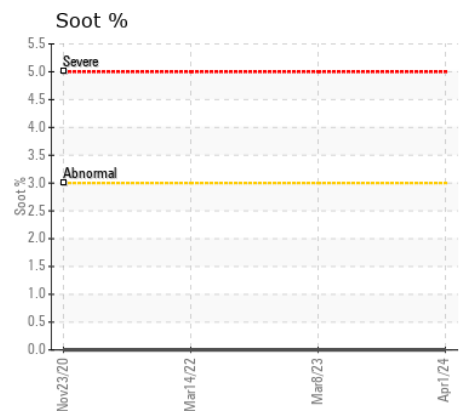
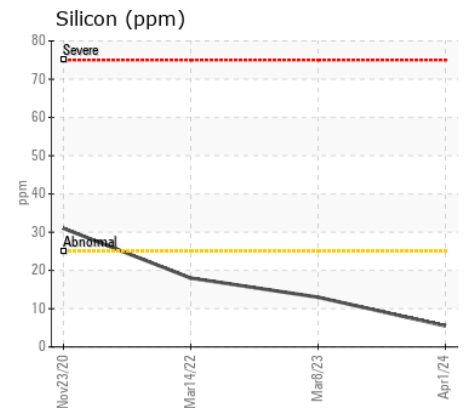
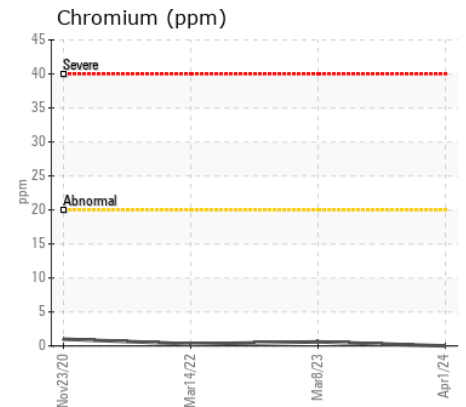
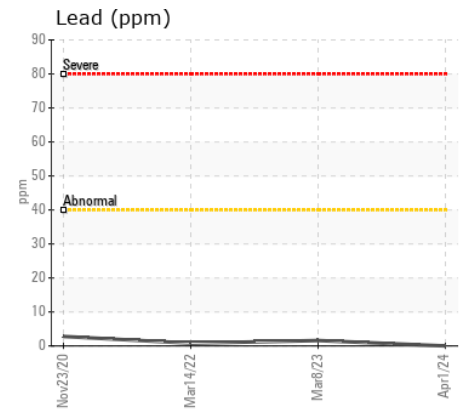
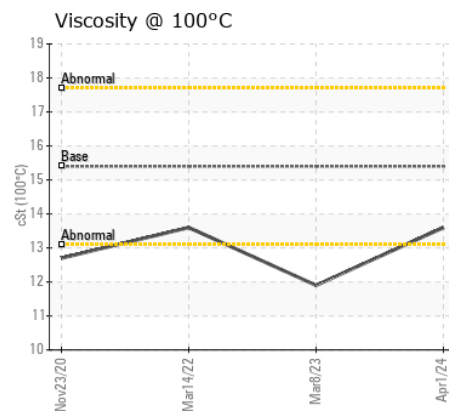
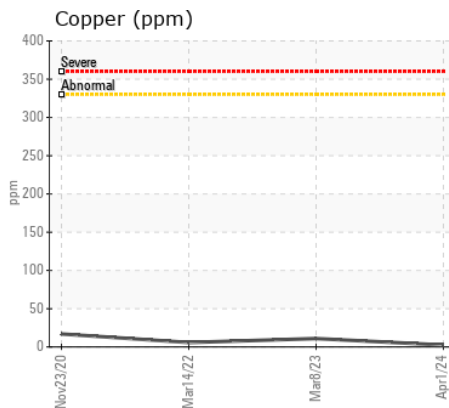
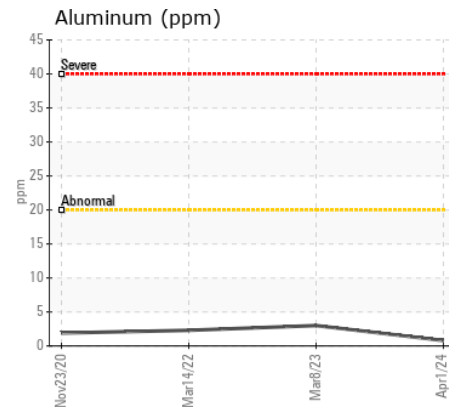
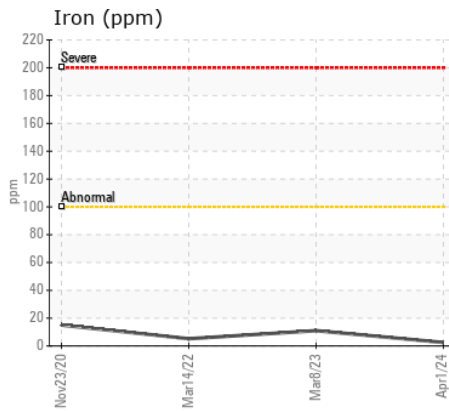
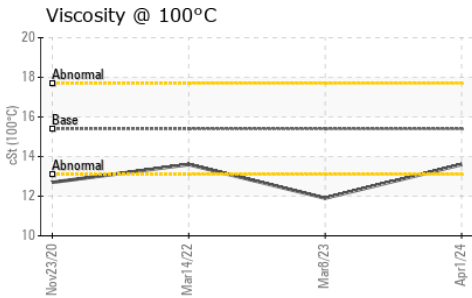
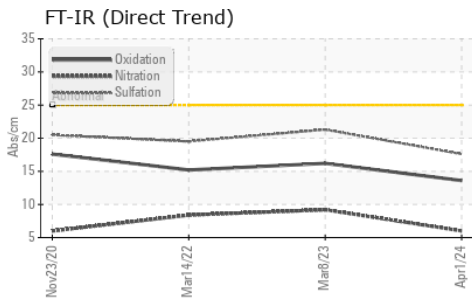
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	13	18
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 4.5	<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>6.0</b>	9.2	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.6</b>	21.3	19.5
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>	2	2
Boron	ppm	ASTM D5185(m)		<b>23</b>	59	73
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>53</b>	69	81
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>705</b>	67	106
Calcium	ppm	ASTM D5185(m)	3780	<b>1327</b>	2145	2020
Phosphorus	ppm	ASTM D5185(m)	1370	<b>979</b>	1051	1035
Zinc	ppm	ASTM D5185(m)	1500	<b>1146</b>	1151	1146
Sulfur	ppm	ASTM D5185(m)	3800	<b>2756</b>	3129	3198
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.6</b>	16.2	15.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.6</b>	11.9	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005934 **Received** : 09 Apr 2024  
**Lab Number** : 02627629 **Tested** : 09 Apr 2024  
**Unique Number** : 5760761 **Diagnosed** : 09 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: 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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