



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**City Of Mount Pearl**  
 Machine Id  
**INTERNATIONAL Salter/Dump, 21-18D**  
 Component  
**Diesel Engine**  
 Fluid  
**IRVING IDO PREMIUM PLUS 15W40 (24 LTR)**

**RECOMMENDATION**

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		<b>OF0000530</b>	---	---
Sample Date		Client Info		<b>30 May 2022</b>	---	---
Machine Age	hrs	Client Info		<b>440</b>	---	---
Oil Age	hrs	Client Info		<b>440</b>	---	---
Filter Age	hrs	Client Info		<b>440</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	<b>47</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>7</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>11</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>360</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**CONTAMINATION**

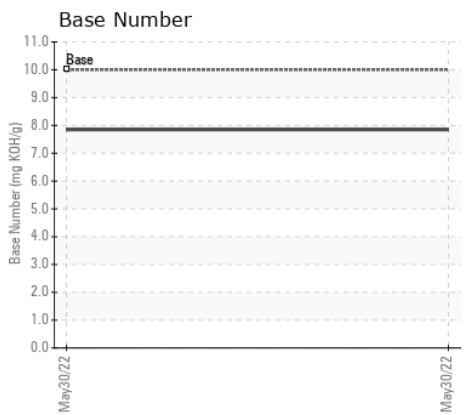
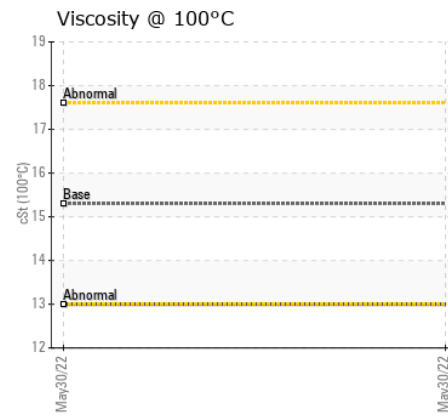
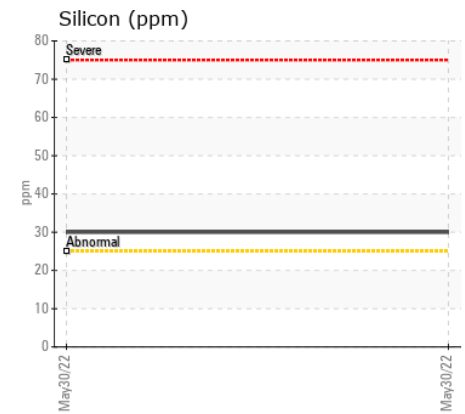
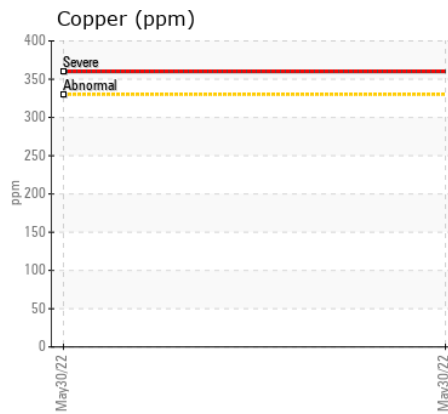
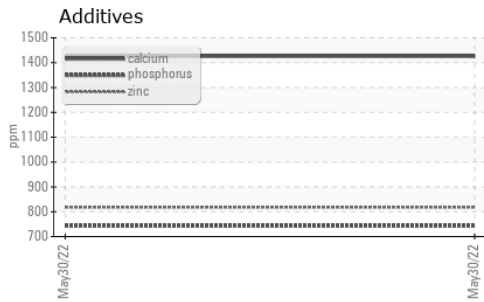
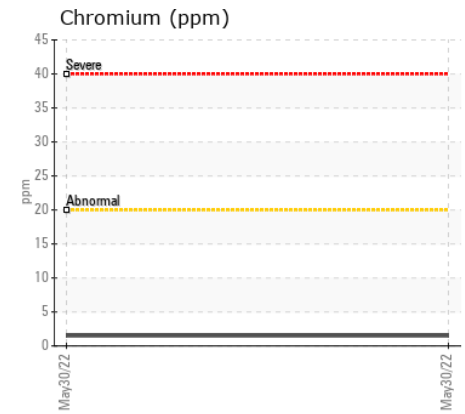
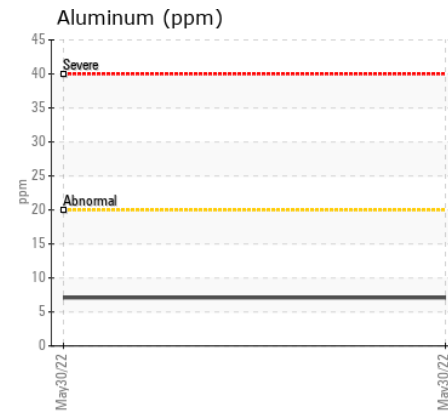
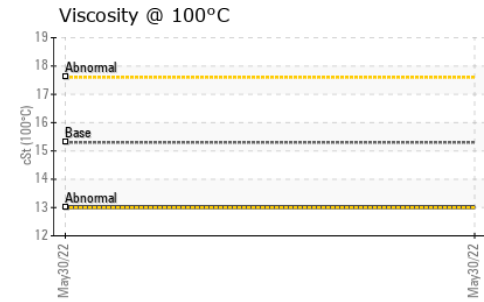
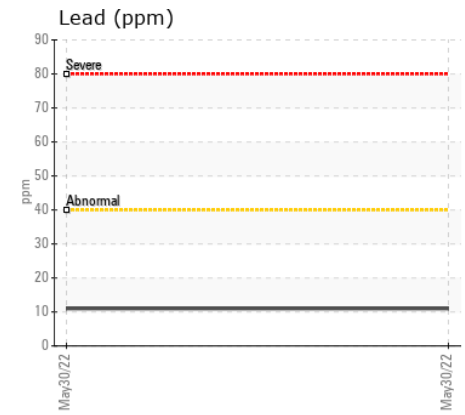
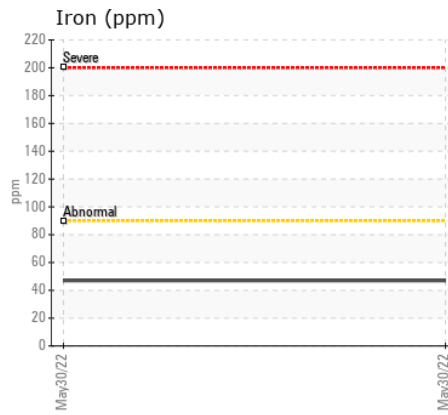
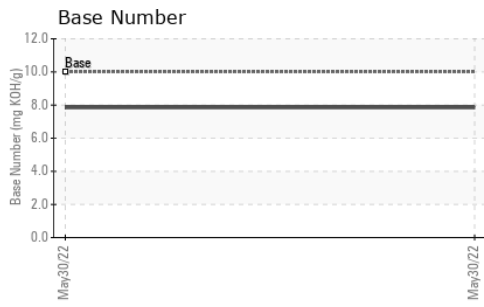
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>30</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>6	<b>0.1</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.6</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.3</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>6</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>200</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>8</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>102</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>7</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>718</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1426</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>743</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>818</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2045</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.1</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10	<b>7.85</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	<b>13.0</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000530  
**Lab Number** : 02494368  
**Unique Number** : 5411327  
**Test Package** : MOB 2  
**Received** : 13 Jun 2022  
**Tested** : 14 Jun 2022  
**Diagnosed** : 14 Jun 2022 - Kevin Marson

**Oil Filtration Solutions Ltd.**  
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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.