



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

City of Mount Pearl

Machine Id

**FREIGHTLINER 21-19D**

Component

**Diesel Engine**

Fluid

**SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Please note that all wear metal and contaminant levels are being considered accumulative. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>OF0000728</b>	---	---
Sample Date	Client Info			<b>17 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>3217</b>	---	---
Oil Age	hrs	Client Info		<b>1500</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>65	<b>0</b>	---	---
Iron	ppm	ASTM D5185(m)	>80	<b>99</b>	---	---
Chromium	ppm	ASTM D5185(m)	>5	<b>3</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>27</b>	---	---
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m)	>150	<b>64</b>	---	---
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

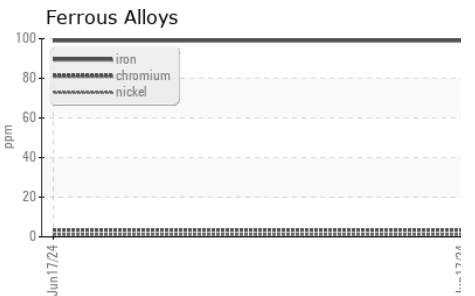
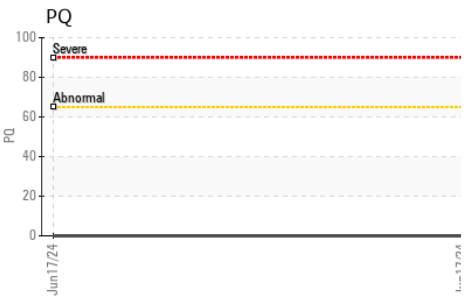
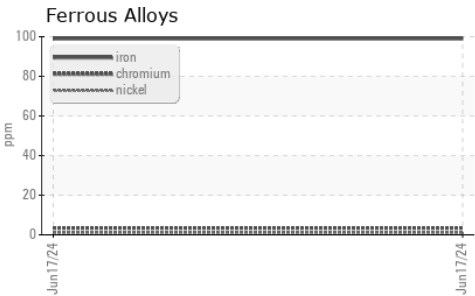
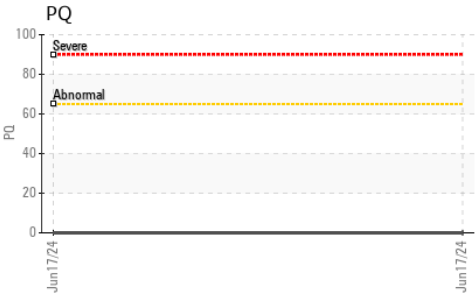
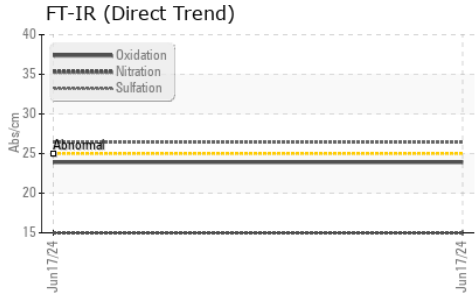
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>2</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>969</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1056</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>881</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1194</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2000</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>11</b>	---	---
Sodium	ppm	ASTM D5185(m)	>57	<b>13</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>1.1</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>15.0</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>26.4</b>	---	---



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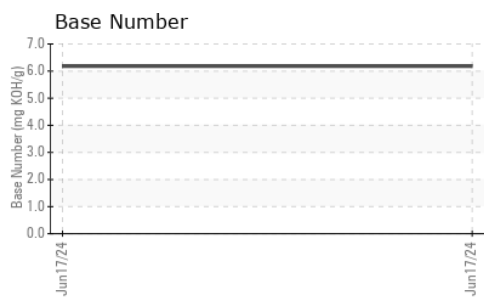
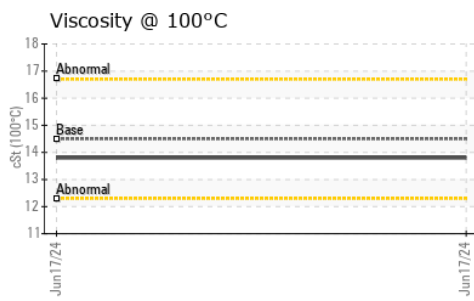
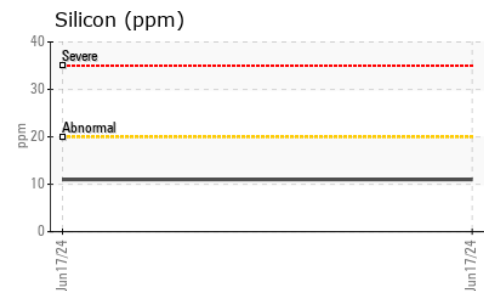
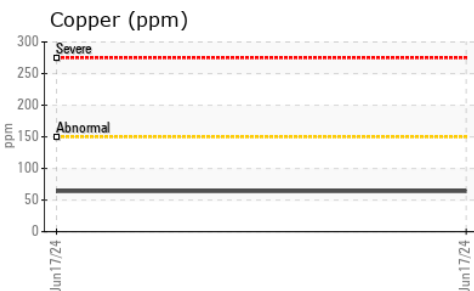
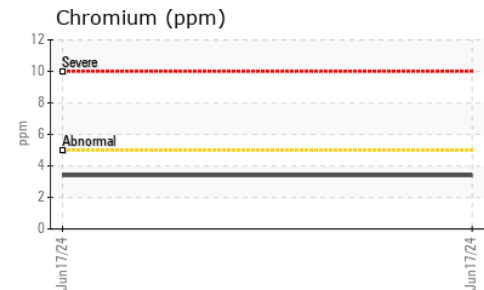
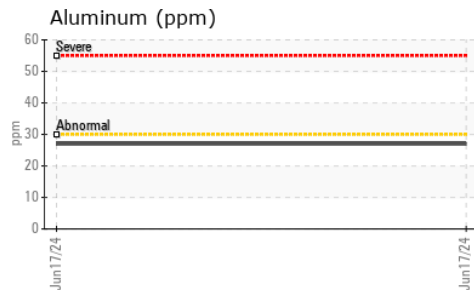
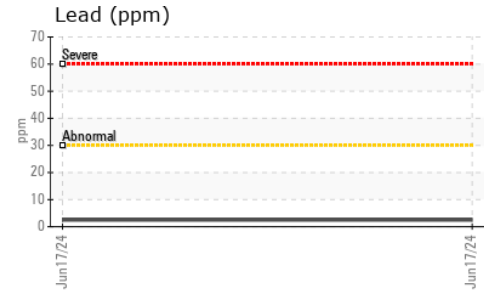
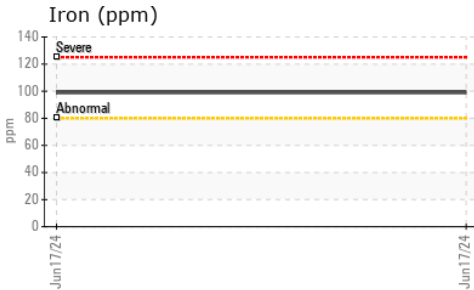


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>23.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>6.18</b>	---	---

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	<b>13.8</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000728      **Received** : 26 Jun 2024  
**Lab Number** : **02644137**      **Tested** : 26 Jun 2024  
**Unique Number** : 5801676      **Diagnosed** : 27 Jun 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: PQ )

**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.