

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[6100237613]**  
Machine Id  
**D070050407**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

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

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>WA0021036</b>	---	---
Sample Date	Client Info		<b>08 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>645</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<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
Iron	ppm	ASTM D5185(m) >90	<b>3</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>0</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>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>0</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) 35	<b>27</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>49</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 10	<b>824</b>	---	---
Calcium	ppm	ASTM D5185(m) 2340	<b>1234</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1110	<b>1034</b>	---	---
Zinc	ppm	ASTM D5185(m) 1210	<b>1168</b>	---	---
Sulfur	ppm	ASTM D5185(m) 3890	<b>2885</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

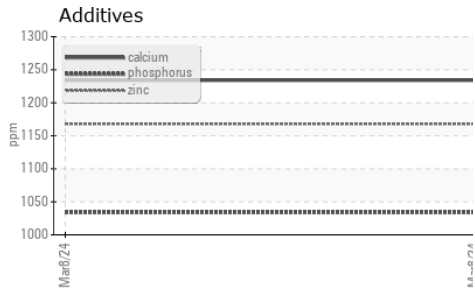
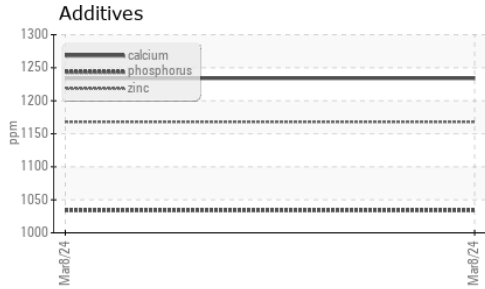
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>2</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>4.9</b>	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>18.2</b>	---	---

# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
-------------------	--------	------------	---------	----------	----------

Oxidation	Abs./1mm	ASTM D7414*	>25	<b>13.4</b>	---	---
-----------	----------	-------------	-----	-------------	-----	-----

VISUAL	method	limit/base	current	history1	history2
--------	--------	------------	---------	----------	----------

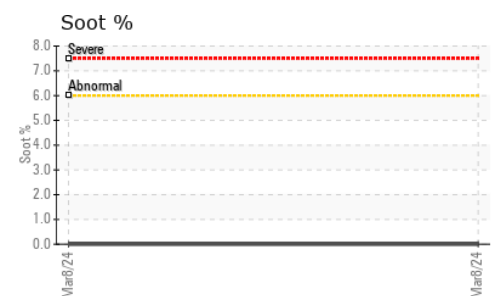
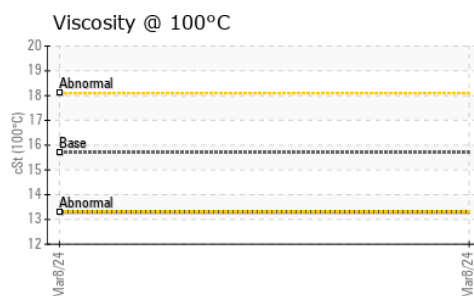
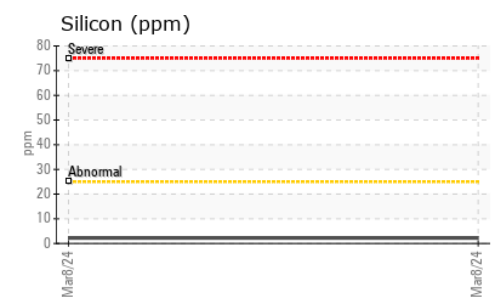
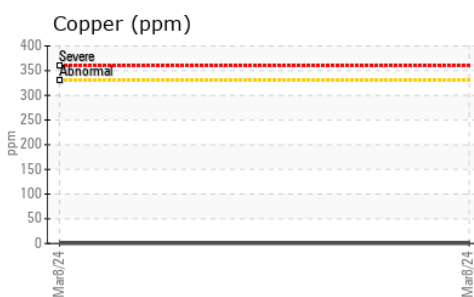
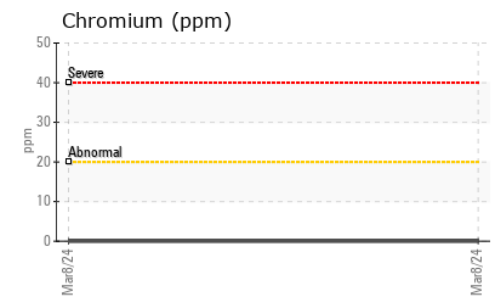
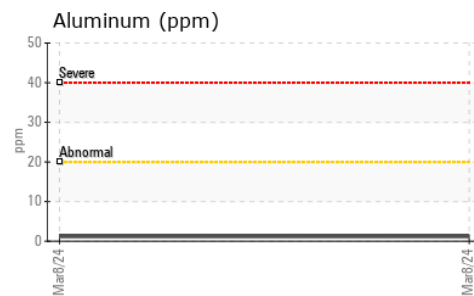
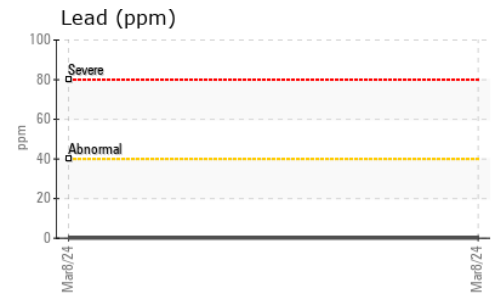
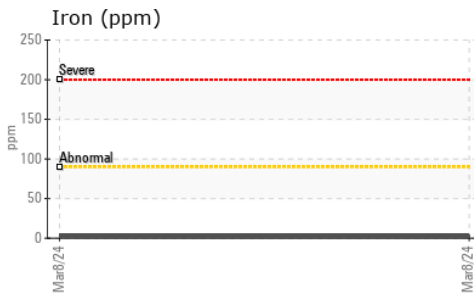
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
------------------	--------	---------	------	------------	-----	-----

Free Water	scalar	Visual*		<b>NEG</b>	---	---
------------	--------	---------	--	------------	-----	-----

FLUID PROPERTIES	method	limit/base	current	history1	history2
------------------	--------	------------	---------	----------	----------

Visc @ 100°C	cSt	ASTM D7279(m)	15.7	<b>13.3</b>	---	---
--------------	-----	---------------	------	-------------	-----	-----

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021036 **Received** : 12 Mar 2024  
**Lab Number** : 02621369 **Tested** : 12 Mar 2024  
**Unique Number** : 5746488 **Diagnosed** : 12 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

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.

**Wajax Power Systems**  
 70 Raddall Avenue  
 Dartmouth, NS  
 CA B3B 1T7  
 Contact: Danelle Hoffman  
 dhoffman@wajax.com  
 T: (902)468-6200  
 F: (902)468-3325