



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

OIL ANALYSIS REPORT

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

Area  
**[6100269147]**

Machine Id  
**6R505351**

Component  
**Diesel Engine**

Fluid  
**SHELL ROTELLA T 15W40 (--- GAL)**

**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>WA0020840</b>	WA0017731	WA0014357
Sample Date		Client Info		<b>23 May 2024</b>	03 Jun 2022	16 Jul 2019
Machine Age	hrs	Client Info		<b>649</b>	602	511
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
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)	>200	<b>2</b>	5	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

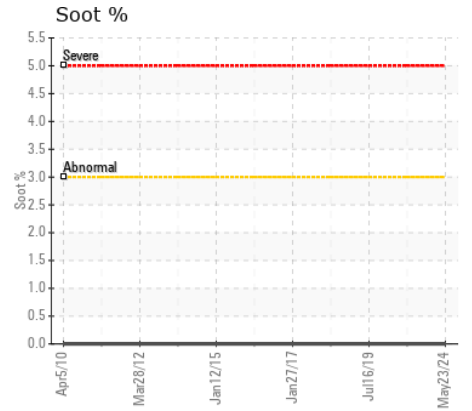
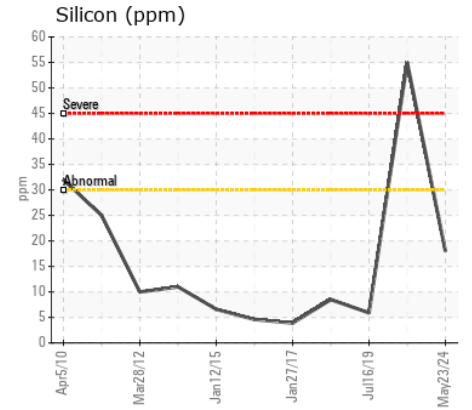
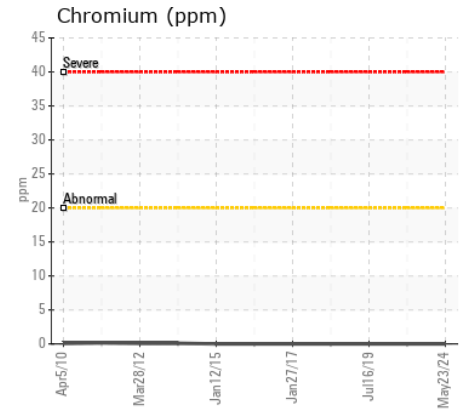
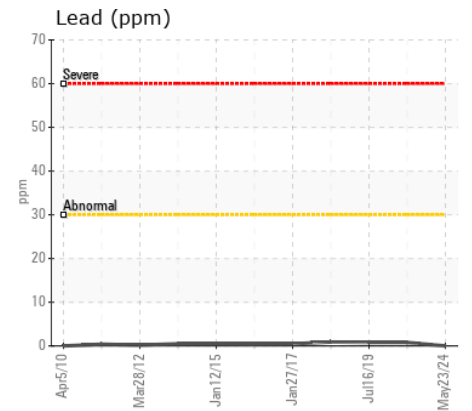
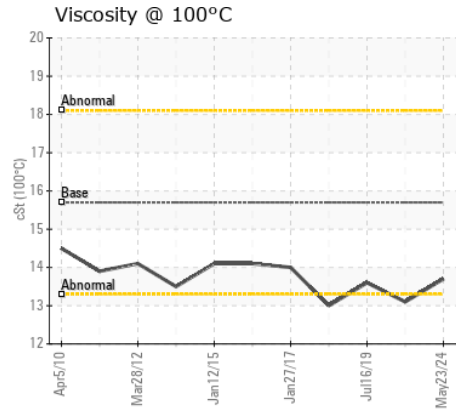
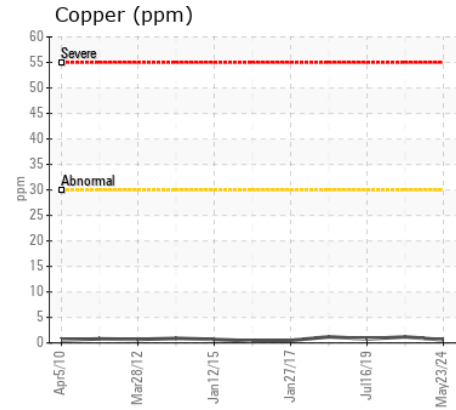
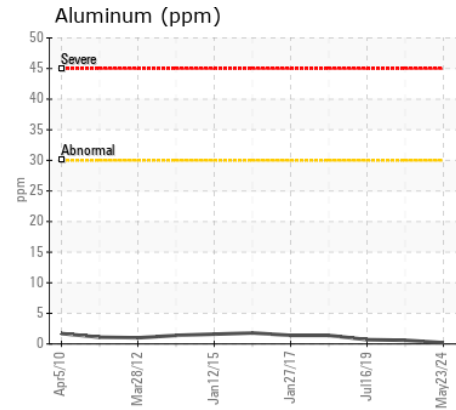
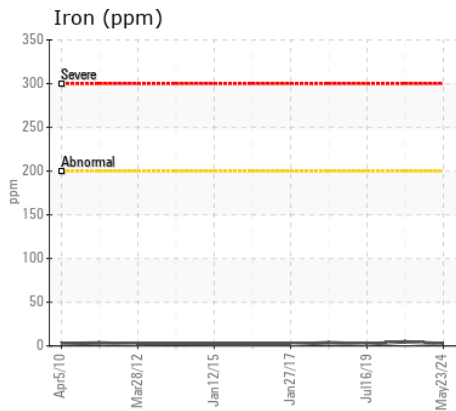
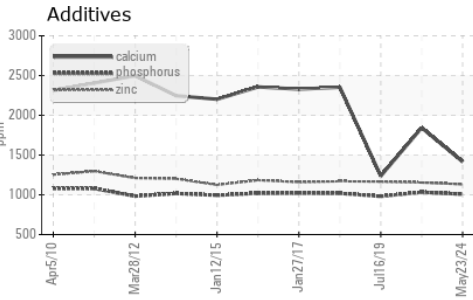
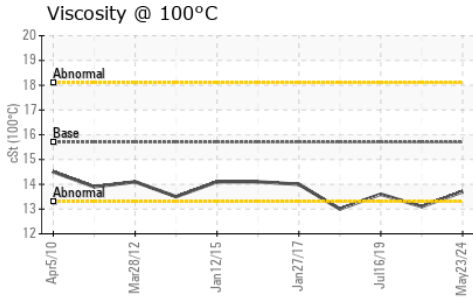
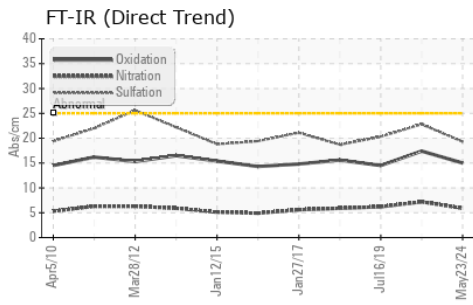
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>18</b>	55	6
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 2.7	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.9</b>	7.2	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	22.8	20.3
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	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)		<b>1</b>	2	2
Boron	ppm	ASTM D5185(m)	35	<b>53</b>	115	10
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>39</b>	17	47
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	<b>649</b>	266	746
Calcium	ppm	ASTM D5185(m)	2340	<b>1416</b>	1843	1237
Phosphorus	ppm	ASTM D5185(m)	1110	<b>1008</b>	1033	980
Zinc	ppm	ASTM D5185(m)	1210	<b>1132</b>	1154	1165
Sulfur	ppm	ASTM D5185(m)	3890	<b>2662</b>	2917	2879
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.0</b>	17.4	14.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	<b>13.7</b>	13.1	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020840  
**Lab Number** : 02638409  
**Unique Number** : 5787571  
**Test Package** : MOB 1  
**Received** : 29 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Wes Davis

**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

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.