



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

OIL ANALYSIS REPORT

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

Area

**ASCENT MMC HOLDINGS [265173]**

Machine Id

**528101930**

Component

**Diesel Engine**

Fluid

**CASTROL 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0020896</b>	WA0019326	WA0017572
Sample Date		Client Info		<b>23 Apr 2024</b>	14 Apr 2023	25 Mar 2022
Machine Age	hrs	Client Info		<b>217</b>	295	190
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>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>1</b>	1	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

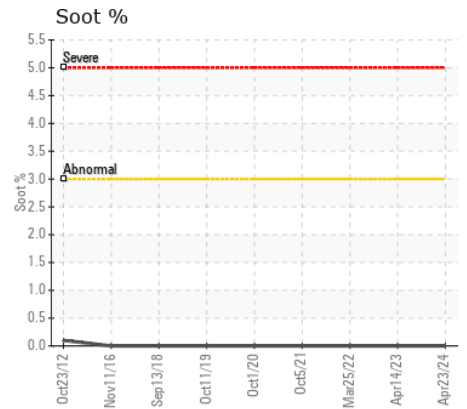
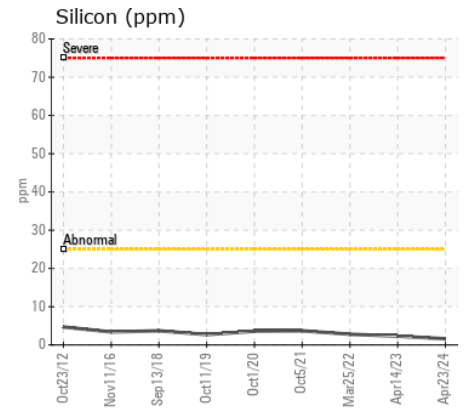
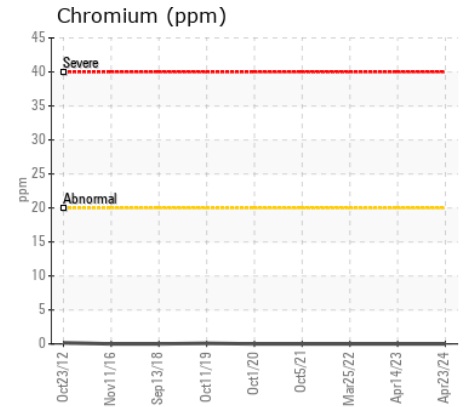
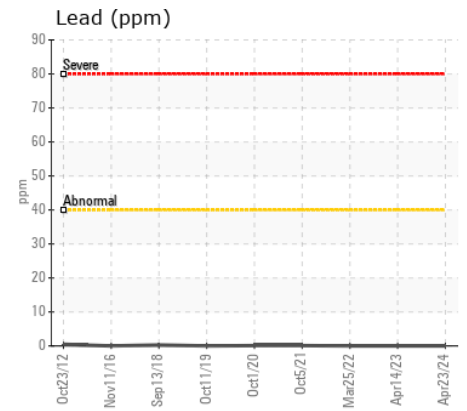
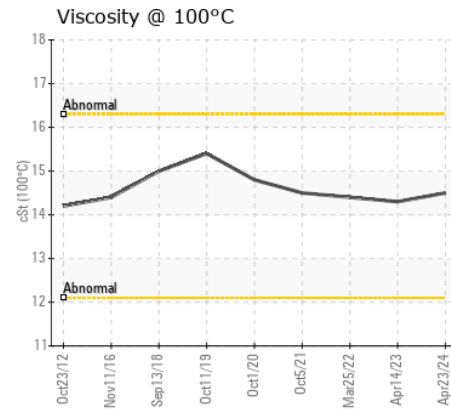
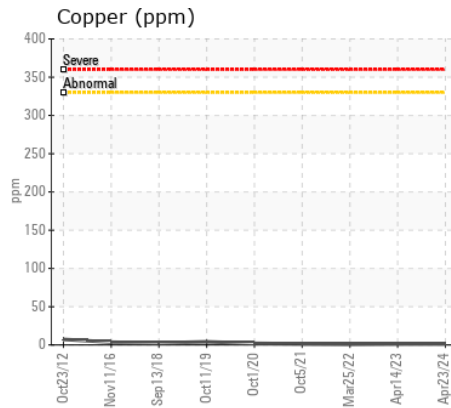
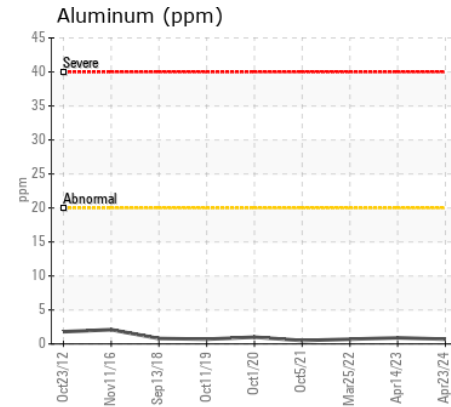
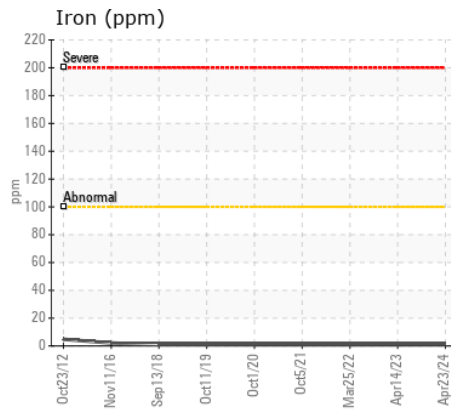
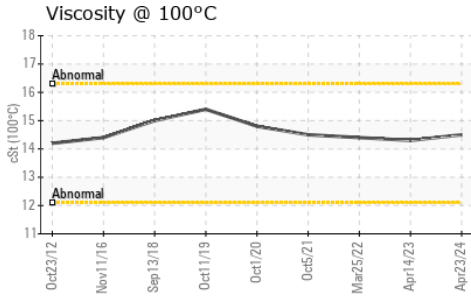
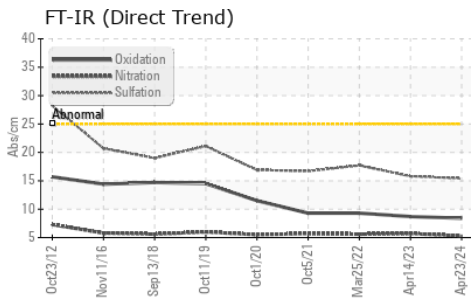
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<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>5.3</b>	5.7	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>15.4</b>	15.8	17.7
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)	>406	<b>1</b>	2	1
Boron	ppm	ASTM D5185(m)		<b>3</b>	4	4
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	3
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>17</b>	24	28
Calcium	ppm	ASTM D5185(m)		<b>2424</b>	2396	2171
Phosphorus	ppm	ASTM D5185(m)		<b>937</b>	980	924
Zinc	ppm	ASTM D5185(m)		<b>1047</b>	1033	1021
Sulfur	ppm	ASTM D5185(m)		<b>3164</b>	3181	3048
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>8.4</b>	8.7	9.3
Visc @ 100°C	cSt	ASTM D7279(m)		<b>14.5</b>	14.3	14.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020896  
**Lab Number** : 02633731  
**Unique Number** : 5774884  
**Test Package** : MOB 1

**Received** : 06 May 2024  
**Tested** : 06 May 2024  
**Diagnosed** : 06 May 2024 - Wes Davis

**Wajax Power Systems**  
 10 Diesel Drive  
 Toronto, ON  
 CA M8W 2T8  
 Contact: Komal Ramotar  
 kramotar@wajax.com  
 T: (416)259-3281  
 F: (416)251-6191

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.