



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

OIL ANALYSIS REPORT

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

Area  
**TTR [285519]**  
Machine Id  
**KOHLER 093370**  
Component  
**Diesel Engine**  
Fluid  
**CASTROL 15W40 (16 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0020699</b>	WA0019756	WA0017575
Sample Date		Client Info		<b>04 Jun 2024</b>	03 May 2023	04 May 2022
Machine Age	hrs	Client Info		<b>735</b>	691	642
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>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	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>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
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>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

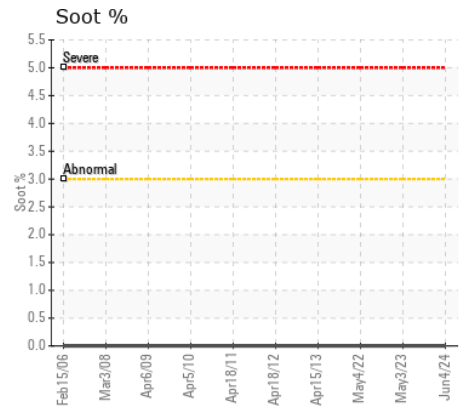
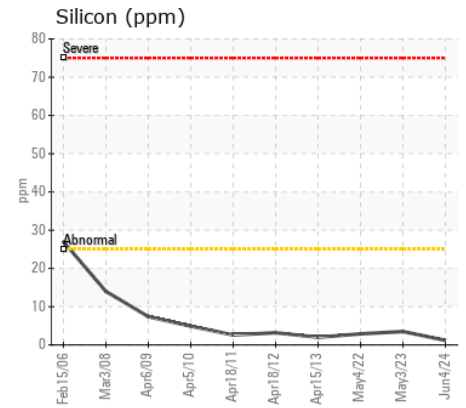
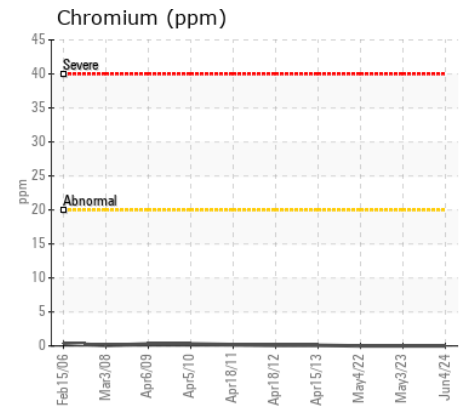
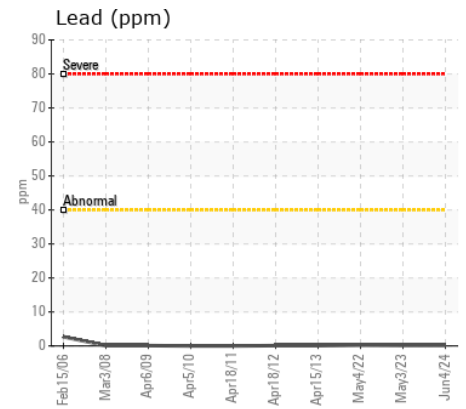
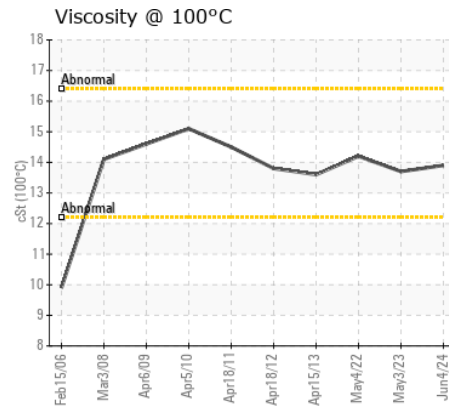
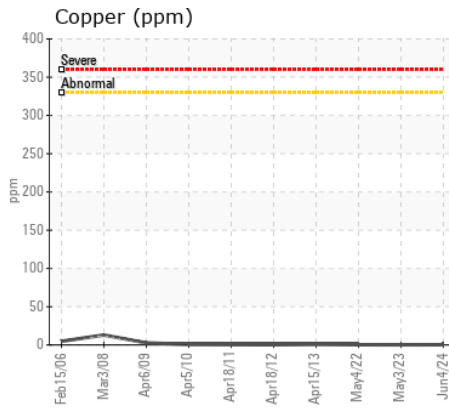
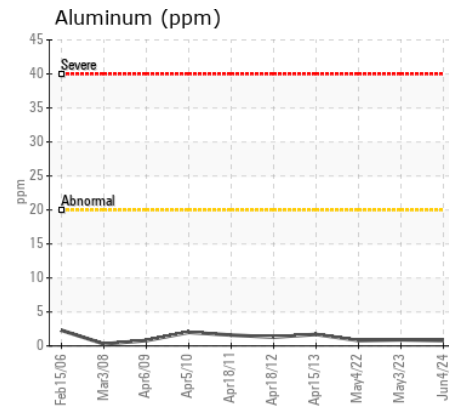
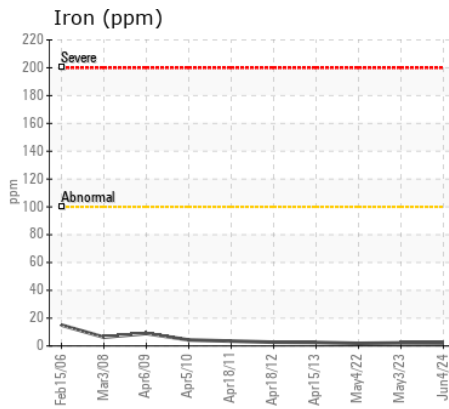
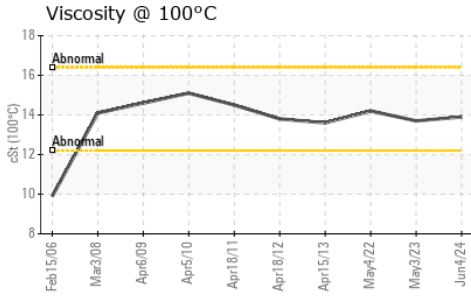
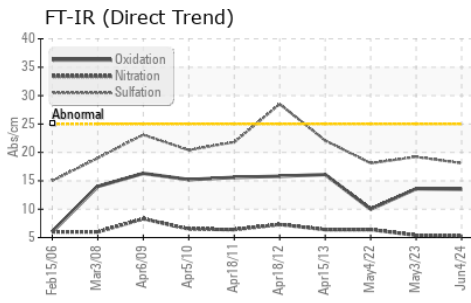
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	1	3
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>	5.4	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.1</b>	19.2	18.1
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>	1	2
Boron	ppm	ASTM D5185(m)		<b>3</b>	6	1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>56</b>	52	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)		<b>929</b>	901	35
Calcium	ppm	ASTM D5185(m)		<b>1018</b>	1150	2302
Phosphorus	ppm	ASTM D5185(m)		<b>950</b>	1075	956
Zinc	ppm	ASTM D5185(m)		<b>1131</b>	1122	1075
Sulfur	ppm	ASTM D5185(m)		<b>2529</b>	2731	3172
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.5</b>	13.6	10.0
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.9</b>	13.7	14.2



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020699  
**Lab Number** : 02645173  
**Unique Number** : 5802712  
**Test Package** : MOB 1

**Received** : 03 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

**Wajax Power Systems**  
 10 Diesel Drive  
 Toronto, ON  
 CA M8W 2T8  
 Contact: David Gilkes  
 dgilkes@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.