MOB I

WAJAX POWER SYSTEMS SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2006014621
Component
Port Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

WEAR

Aluminum ppm levels are severe. Chromium and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Ring wear is indicated. Piston wear is indicated.

CONTAMINATION

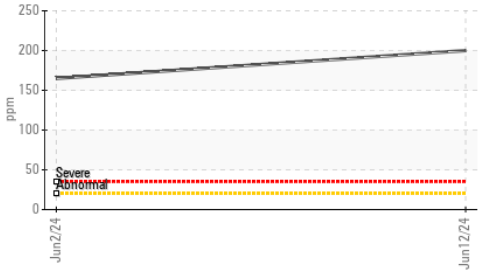
There is no indication of any contamination in the oil.

FLUID CONDITION

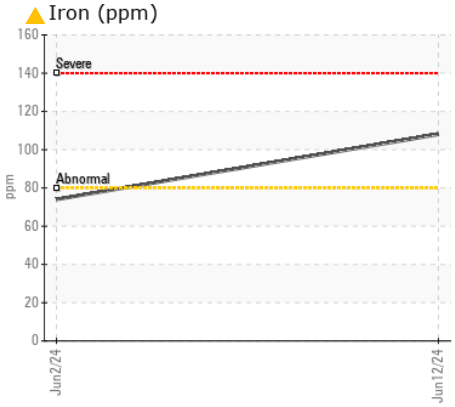
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WA0021667**	WA0021449	---
Sample Date		Client Info		**12 Jun 2024**	02 Jun 2024	---
Machine Age	hrs	Client Info		**0**	936	---
Oil Age	hrs	Client Info		**0**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	Not Changd	---
Filter Changed		Client Info		**N/A**	Not Changd	---
Sample Status				**SEVERE**	SEVERE	---
PQ		ASTM D8184*		**11**	---	---
Iron	ppm	ASTM D5185(m)	>80	▲ **108**	74	---
Chromium	ppm	ASTM D5185(m)	>6	▲ **8**	6	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	---
Silver	ppm	ASTM D5185(m)	>2	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>20	▲ **200**	▲ 165	---
Lead	ppm	ASTM D5185(m)	>95	**<1**	<1	---
Copper	ppm	ASTM D5185(m)	>85	**3**	2	---
Tin	ppm	ASTM D5185(m)	>9	**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Silicon	ppm	ASTM D5185(m)	>25	**5**	4	---
Potassium	ppm	ASTM D5185(m)	>20	**3**	4	---
Fuel		WC Method	>4.0	**<1.0**	<1.0	---
Water		WC Method	>0.1	**NEG**	NEG	---
Glycol	%	ASTM D7922*		**0.0**	0.0	---
Soot %	%	ASTM D7844*		**0**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**4.5**	4.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**17.2**	17.1	---
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	---
Sodium	ppm	ASTM D5185(m)	>158	**72**	66	---
Boron	ppm	ASTM D5185(m)	250	**2**	2	---
Barium	ppm	ASTM D5185(m)	10	**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	100	**57**	58	---
Manganese	ppm	ASTM D5185(m)		**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)	450	**961**	976	---
Calcium	ppm	ASTM D5185(m)	3000	**1014**	1038	---
Phosphorus	ppm	ASTM D5185(m)	1150	**978**	987	---
Zinc	ppm	ASTM D5185(m)	1350	**1129**	1135	---
Sulfur	ppm	ASTM D5185(m)	4250	**2538**	2586	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	**12.7**	12.6	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	**109**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**14.7**	14.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	**139**	---	---

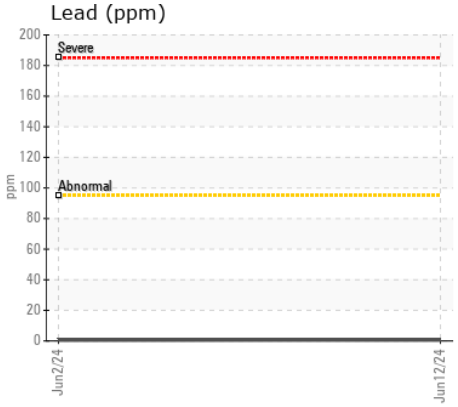
Aluminum (ppm)



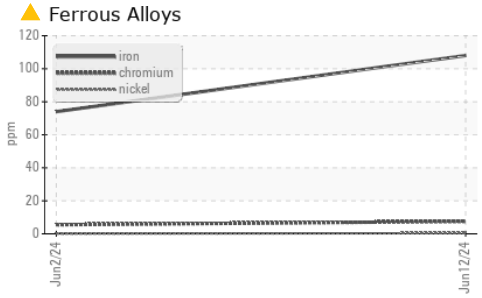
Iron (ppm)



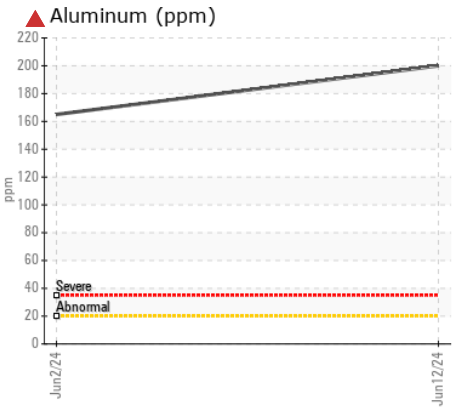
Lead (ppm)



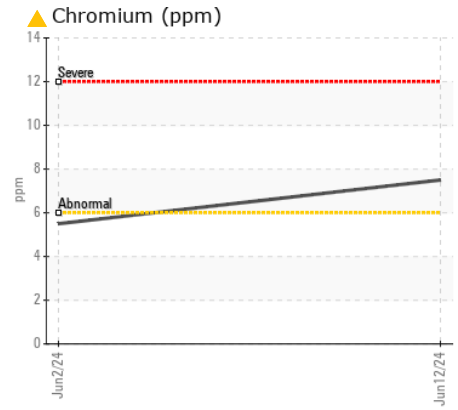
Ferrous Alloys



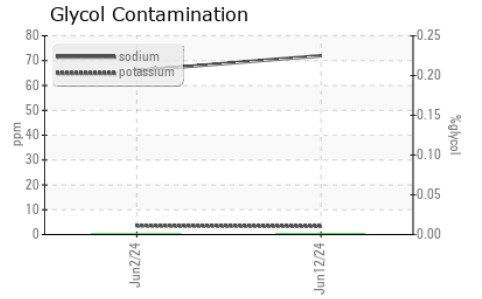
Aluminum (ppm)



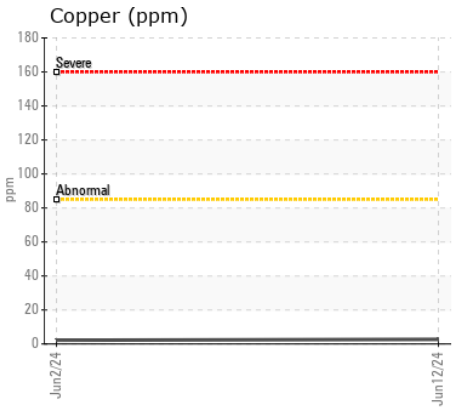
Chromium (ppm)



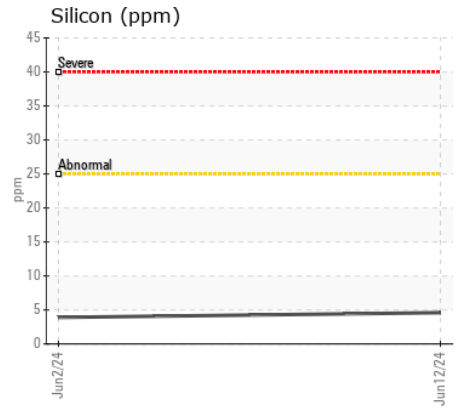
Glycol Contamination



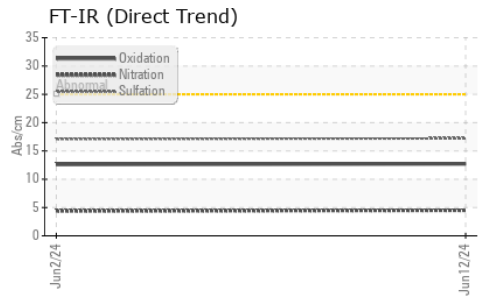
Copper (ppm)



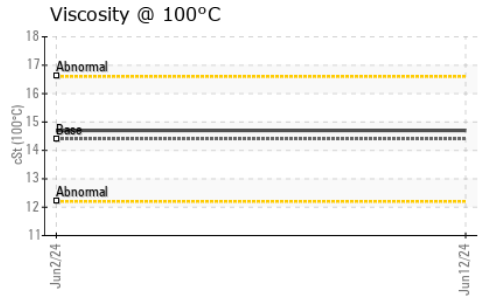
Silicon (ppm)



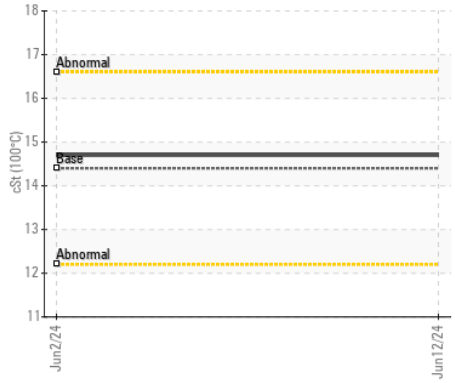
FT-IR (Direct Trend)



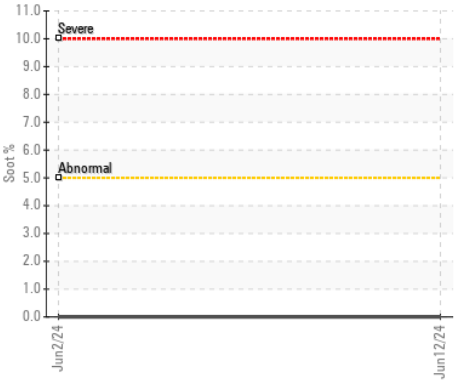
Viscosity @ 100°C



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021667 **Received** : 13 Jun 2024
Lab Number : 02641628 **Tested** : 13 Jun 2024
Unique Number : 5799167 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, PQ, VI)

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.

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