MOB II

WAJAX POWER SYSTEMS / SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[01-26758]
Machine Id
45588214
Component
Port Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

WEAR

Nickel ppm levels are marginal. All other component wear rates are normal.

CONTAMINATION

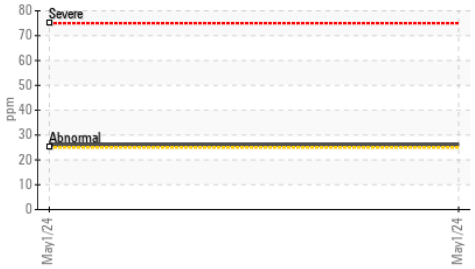
There is a moderate concentration of dirt present in the oil.

FLUID CONDITION

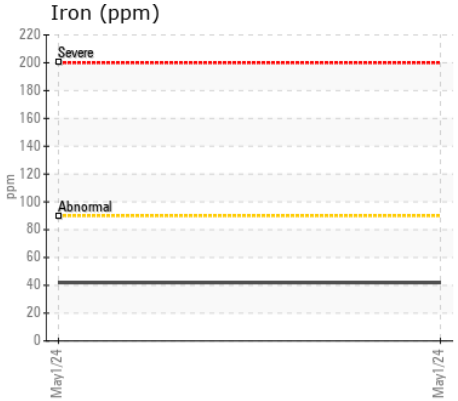
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021268	---	---
Sample Date		Client Info		01 May 2024	---	---
Machine Age	hrs	Client Info		1656	---	---
Oil Age	hrs	Client Info		250	---	---
Filter Age	hrs	Client Info		250	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>90	42	---	---
Chromium	ppm	ASTM D5185(m)	>20	2	---	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 2	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	3	---	---
Lead	ppm	ASTM D5185(m)	>40	27	---	---
Copper	ppm	ASTM D5185(m)	>330	8	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Silicon	ppm	ASTM D5185(m)	>25	▲ 26	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>6	0.3	---	---
Nitration	Abs/cm	ASTM D7624*	>20	13.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)		5	---	---
Boron	ppm	ASTM D5185(m)	39	64	---	---
Barium	ppm	ASTM D5185(m)	1	0	---	---
Molybdenum	ppm	ASTM D5185(m)	49	68	---	---
Manganese	ppm	ASTM D5185(m)	1	<1	---	---
Magnesium	ppm	ASTM D5185(m)	616	791	---	---
Calcium	ppm	ASTM D5185(m)	1554	1390	---	---
Phosphorus	ppm	ASTM D5185(m)	899	749	---	---
Zinc	ppm	ASTM D5185(m)	1069	859	---	---
Sulfur	ppm	ASTM D5185(m)	2624	1957	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.9	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	6.9	8.26	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	14.3	---	---

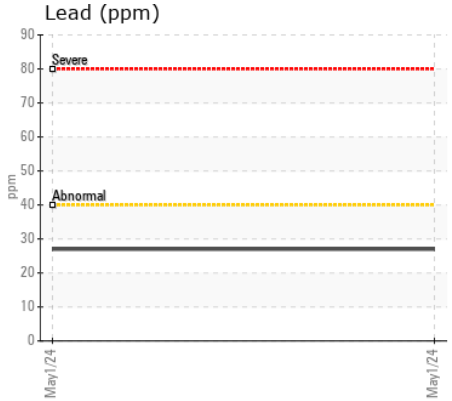
Silicon (ppm)



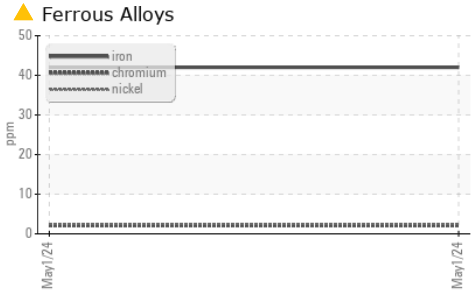
Iron (ppm)



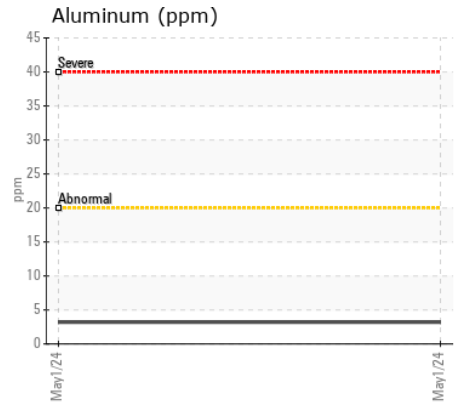
Lead (ppm)



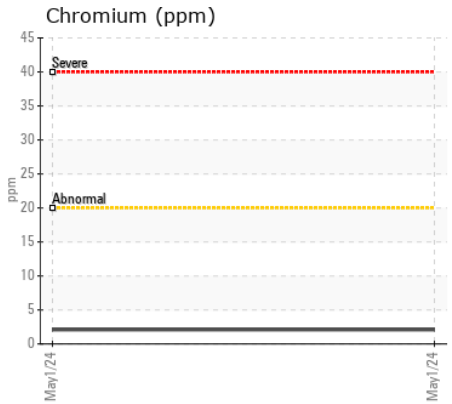
Ferrous Alloys



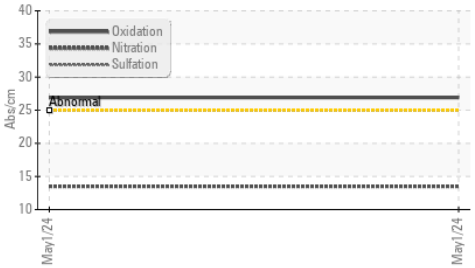
Aluminum (ppm)



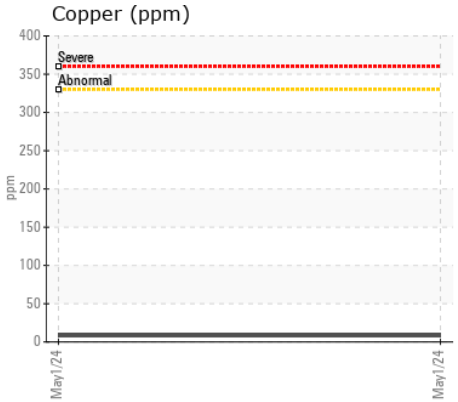
Chromium (ppm)



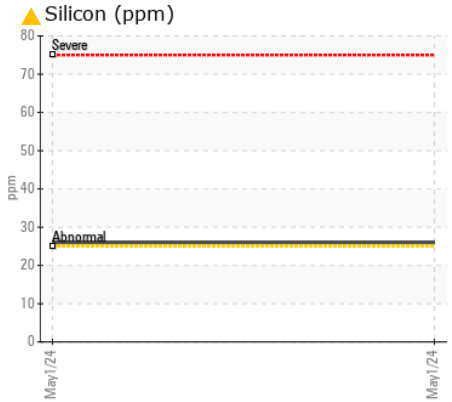
FT-IR (Direct Trend)



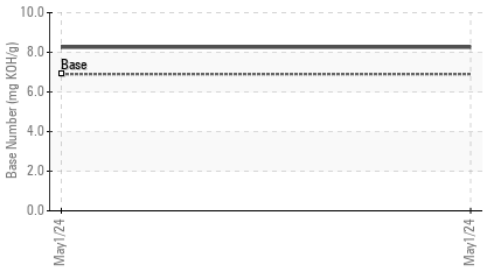
Copper (ppm)



Silicon (ppm)



Base Number



Viscosity @ 100°C

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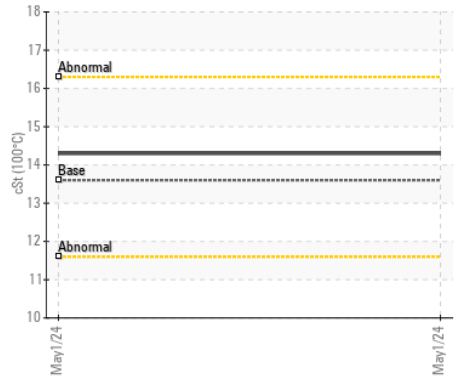
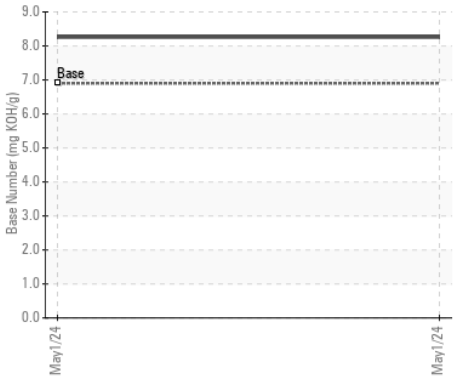


Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021268
Lab Number : 02633463
Unique Number : 5774616
Test Package : MOB 2

Received : 06 May 2024
Tested : 07 May 2024
Diagnosed : 07 May 2024 - Kevin Marson

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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