MOB I

WAJAX POWER SYSTEMS / SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
[6100313825]
Machine Id
FIRE PUMP PH2
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

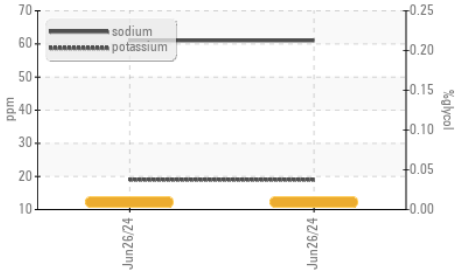
Test for glycol is positive. There is a light concentration of glycol present in the oil.

FLUID CONDITION

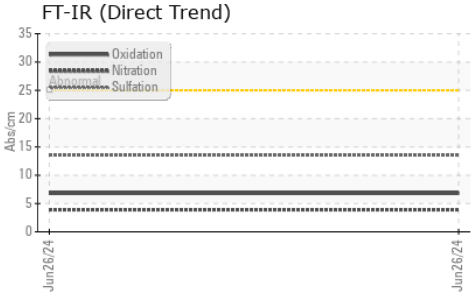
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021753	---	---
Sample Date		Client Info		26 Jun 2024	---	---
Machine Age	hrs	Client Info		480	---	---
Oil Age	hrs	Client Info		37	---	---
Filter Age	hrs	Client Info		37	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>200	12	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>30	3	---	---
Lead	ppm	ASTM D5185(m)	>30	9	---	---
Copper	ppm	ASTM D5185(m)	>30	24	---	---
Tin	ppm	ASTM D5185(m)	>15	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>30	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 19	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		▲ 0.016	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	3.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.5	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>216	● 61	---	---
Boron	ppm	ASTM D5185(m)	250	7	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	105	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	450	13	---	---
Calcium	ppm	ASTM D5185(m)	3000	2423	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	910	---	---
Zinc	ppm	ASTM D5185(m)	1350	1043	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2503	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.8	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	138	120	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	102	101	---	---

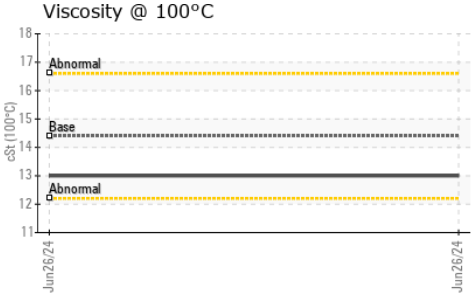
Glycol Contamination



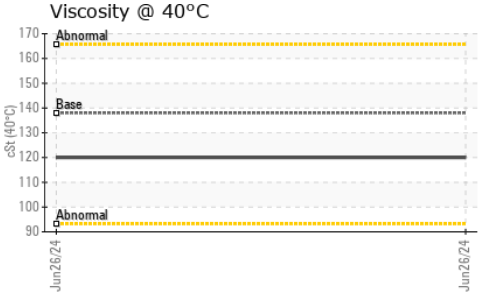
FT-IR (Direct Trend)



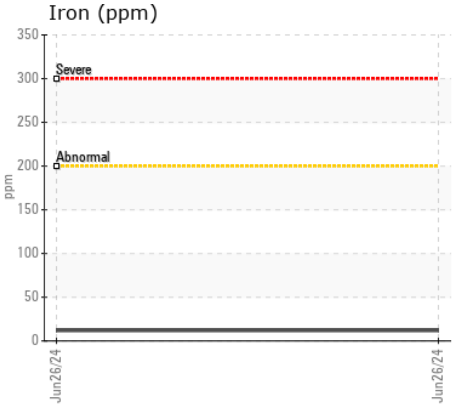
Viscosity @ 100°C



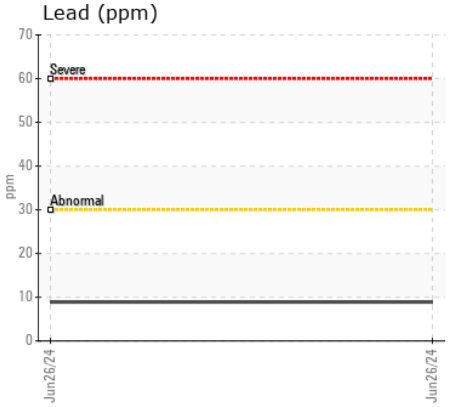
Viscosity @ 40°C



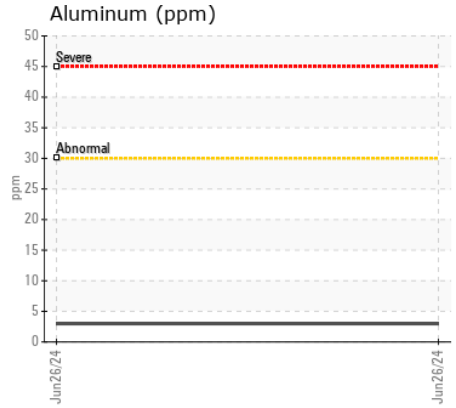
Iron (ppm)



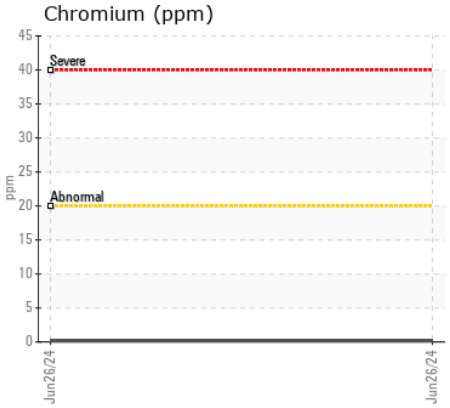
Lead (ppm)



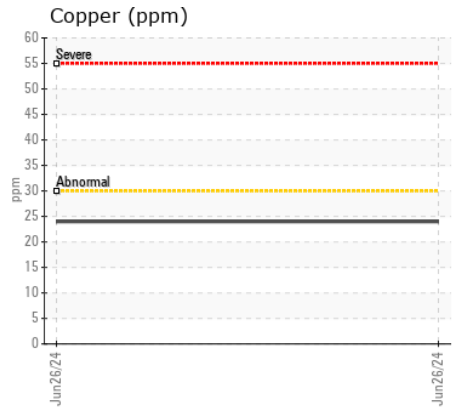
Aluminum (ppm)



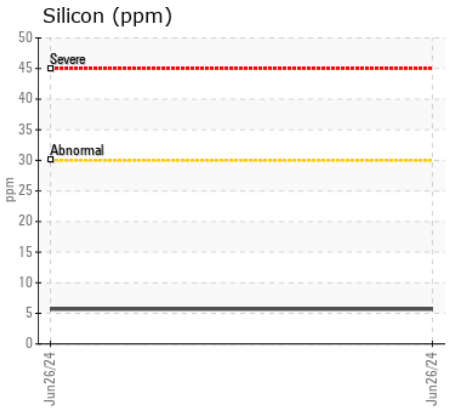
Chromium (ppm)



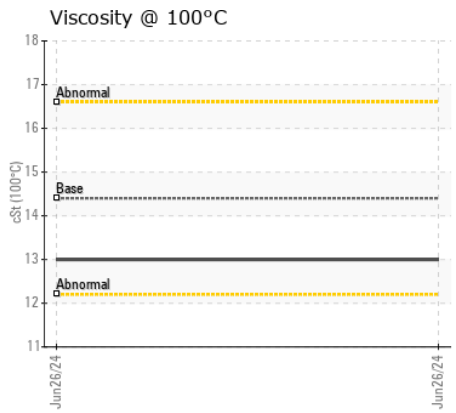
Copper (ppm)



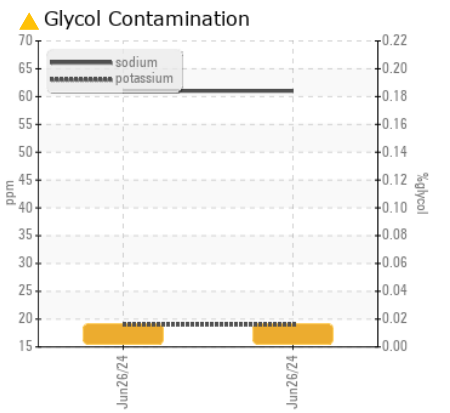
Silicon (ppm)



Viscosity @ 100°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021753 **Received** : 03 Jul 2024
Lab Number : 02645137 **Tested** : 04 Jul 2024
Unique Number : 5802676 **Diagnosed** : 04 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI, Visual)

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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