MOB I

WAJAX POWER SYSTEMS / SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[287008]
Machine Id
MTU 5262002116
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

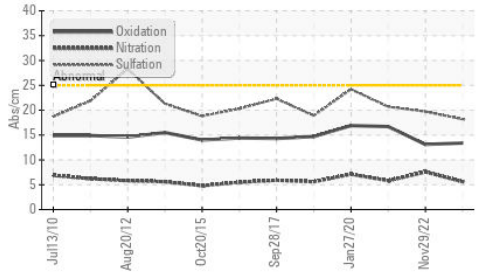
There is no indication of any contamination in the oil.

FLUID CONDITION

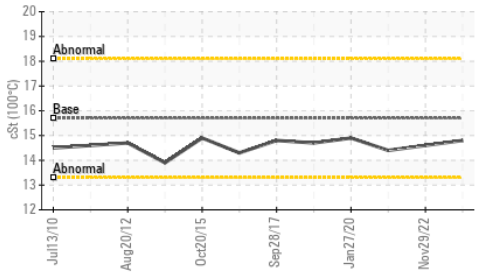
Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WA0020839**	WA0018991	WA0016593
Sample Date		Client Info		**07 May 2024**	29 Nov 2022	06 Jul 2021
Machine Age	hrs	Client Info		**577**	493	352
Oil Age	hrs	Client Info		**40**	130	10
Filter Age	hrs	Client Info		**40**	130	10
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	**2**	4	2
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>4	**0**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	<1	0
Silver	ppm	ASTM D5185(m)	>3	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	1	<1
Lead	ppm	ASTM D5185(m)	>40	**0**	0	0
Copper	ppm	ASTM D5185(m)	>330	**2**	2	1
Tin	ppm	ASTM D5185(m)	>15	**0**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Silicon	ppm	ASTM D5185(m)	>25	**1**	2	4
Potassium	ppm	ASTM D5185(m)	>20	**<1**	2	8
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	0.0
Soot %	%	ASTM D7844*	>3	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.6**	7.6	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**18.2**	19.7	20.7
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)		**1**	3	2
Boron	ppm	ASTM D5185(m)	35	**5**	35	194
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**53**	13	1
Manganese	ppm	ASTM D5185(m)	0	**0**	<1	0
Magnesium	ppm	ASTM D5185(m)	10	**867**	145	23
Calcium	ppm	ASTM D5185(m)	2340	**1260**	2655	2158
Phosphorus	ppm	ASTM D5185(m)	1110	**1028**	1134	1067
Zinc	ppm	ASTM D5185(m)	1210	**1161**	1212	1154
Sulfur	ppm	ASTM D5185(m)	3890	**2702**	3656	3149
Oxidation	Abs/.1mm	ASTM D7414*	>25	**13.4**	13.1	16.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	**14.8**	14.6	14.4

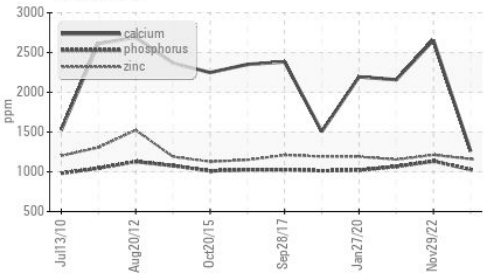
FT-IR (Direct Trend)



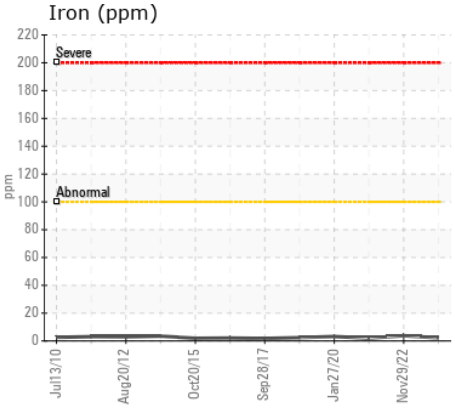
Viscosity @ 100°C



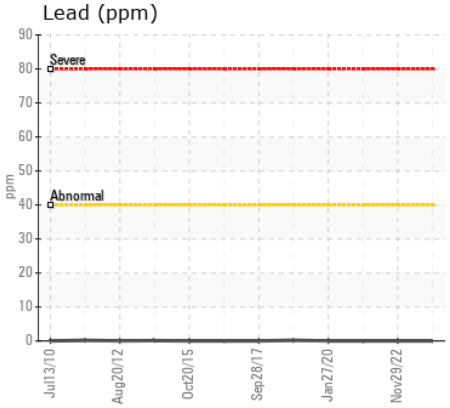
Additives



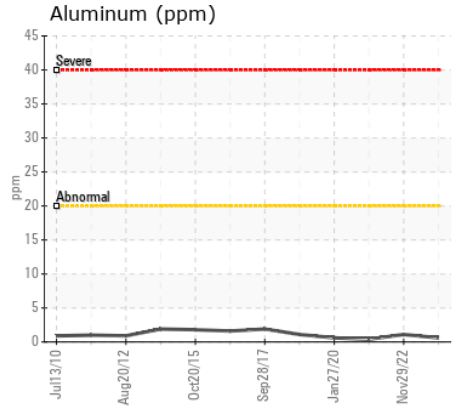
Iron (ppm)



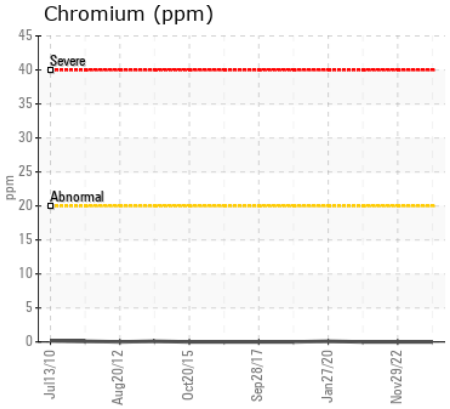
Lead (ppm)



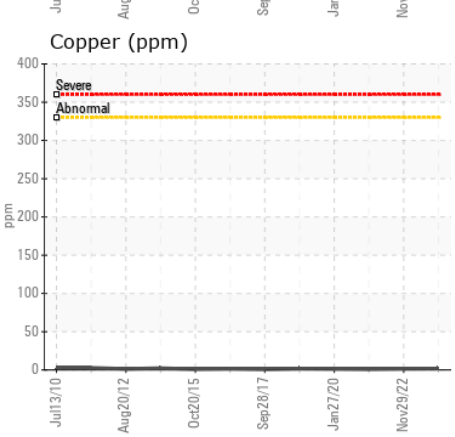
Aluminum (ppm)



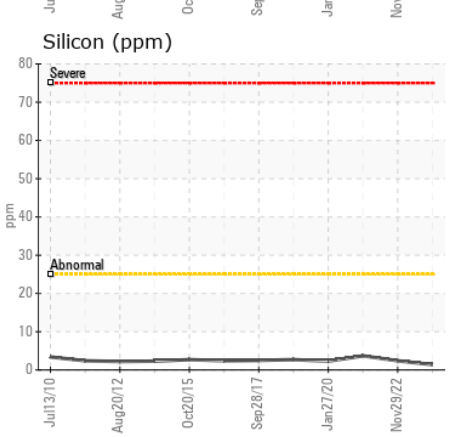
Chromium (ppm)



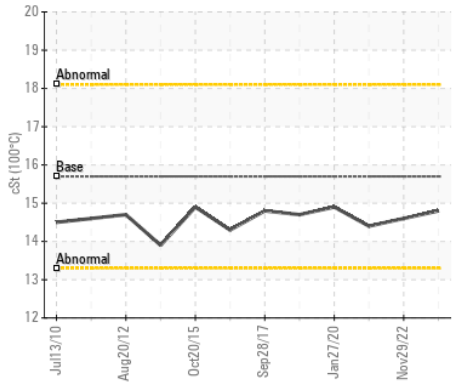
Copper (ppm)



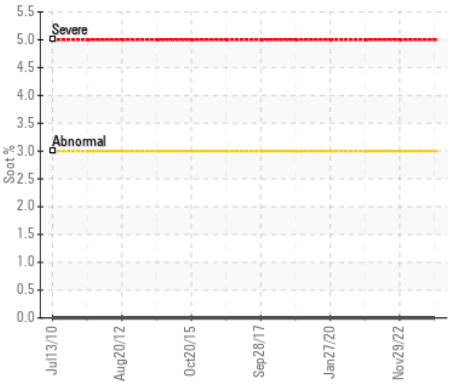
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020839
Lab Number : 02635210
Unique Number : 5776363
Test Package : MOB 1

Received : 14 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Wes Davis

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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