



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
WAJAX [256936]
Machine Id
926.986-C-1128866

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021172	WA0016869	WA0016318
Sample Date		Client Info		27 Feb 2024	27 Apr 2022	01 Apr 2021
Machine Age	hrs	Client Info		192	279	109
Oil Age	hrs	Client Info		10	0	109
Filter Age	hrs	Client Info		10	0	109
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	1	2	21
Chromium	ppm	ASTM D5185(m)	>20	0	0	1
Nickel	ppm	ASTM D5185(m)	>50	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>50	<1	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	4
Copper	ppm	ASTM D5185(m)	>330	<1	2	10
Tin	ppm	ASTM D5185(m)	>15	0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

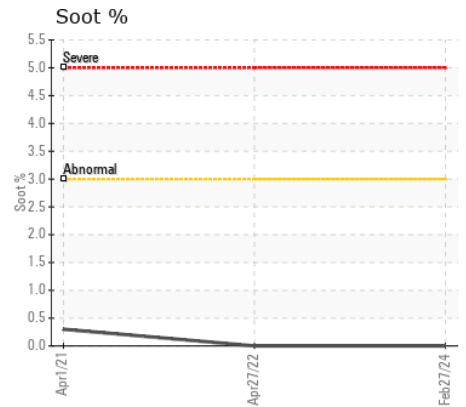
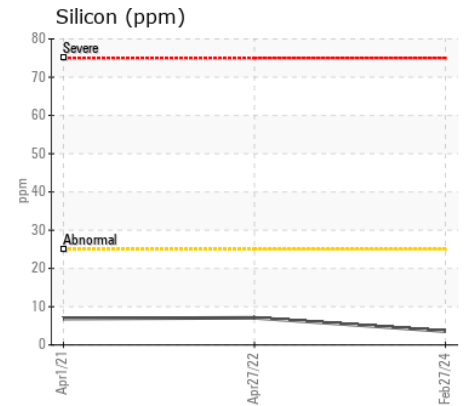
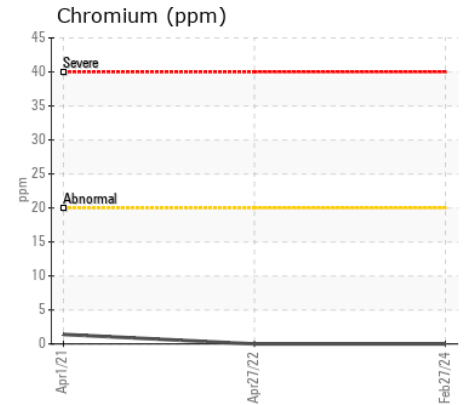
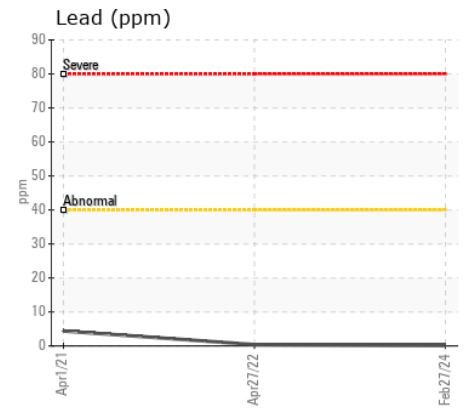
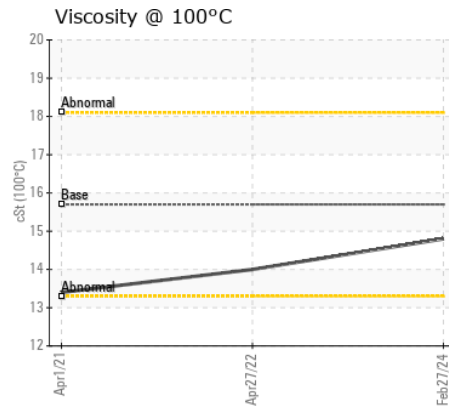
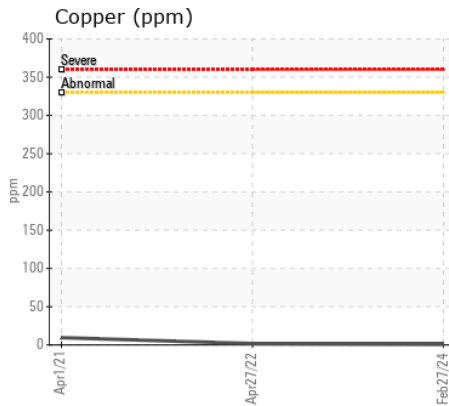
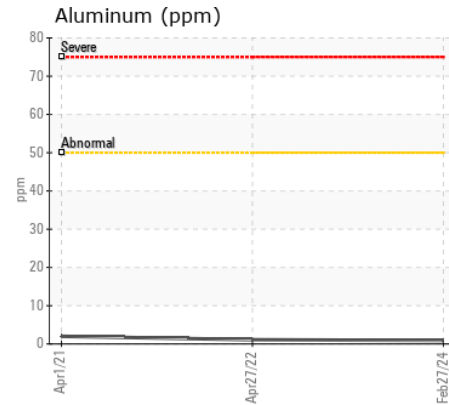
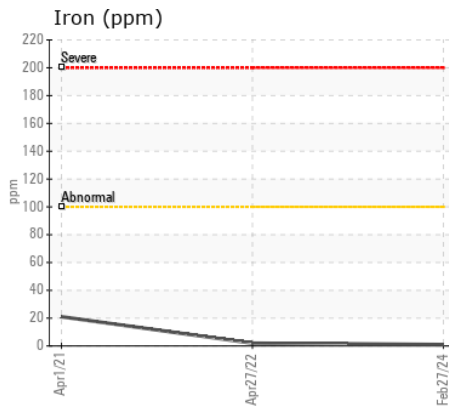
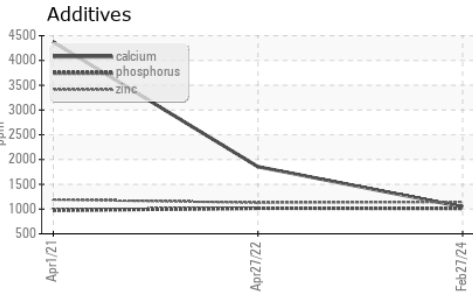
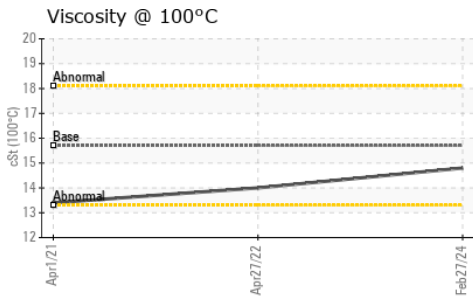
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	7
Potassium	ppm	ASTM D5185(m)	>20	<1	8	3
Fuel		WC Method	>5	<1.0	1.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0	0	0.3
Nitration	Abs/cm	ASTM D7624*	>20	4.2	5.6	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	22.2	16.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		1	2	5
Boron	ppm	ASTM D5185(m)	35	6	192	223
Barium	ppm	ASTM D5185(m)	0	0	0	2
Molybdenum	ppm	ASTM D5185(m)	0	56	<1	1
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	10	916	11	25
Calcium	ppm	ASTM D5185(m)	2340	1044	1855	4371
Phosphorus	ppm	ASTM D5185(m)	1110	1011	1016	975
Zinc	ppm	ASTM D5185(m)	1210	1141	1127	1191
Sulfur	ppm	ASTM D5185(m)	3890	2735	3052	2664
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.7	16.3	9.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	14.8	14.0	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021172 **Received** : 06 Mar 2024
Lab Number : 02620111 **Tested** : 06 Mar 2024
Unique Number : 5737221 **Diagnosed** : 06 Mar 2024 - Wes Davis
Test Package : MOB 1

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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.