



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
WAJAX [6100266836]

Machine Id
6R0983939

Component
Diesel Engine

Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021287	WA0019002	WA0016590
Sample Date		Client Info		18 Apr 2024	16 Nov 2022	21 Jun 2021
Machine Age	hrs	Client Info		1183	830	0
Oil Age	hrs	Client Info		0	295	50
Filter Age	hrs	Client Info		0	295	50
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	82	20	11
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	12	3	2
Copper	ppm	ASTM D5185(m)	>330	91	4	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

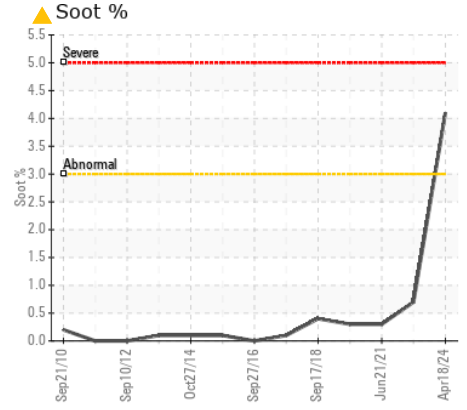
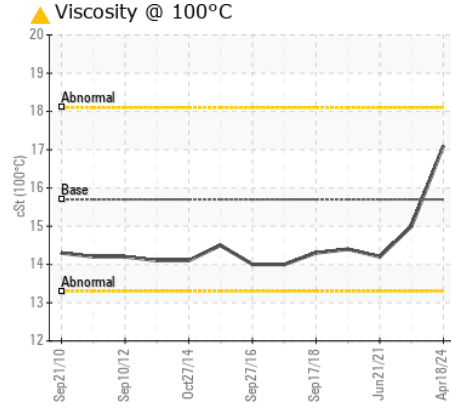
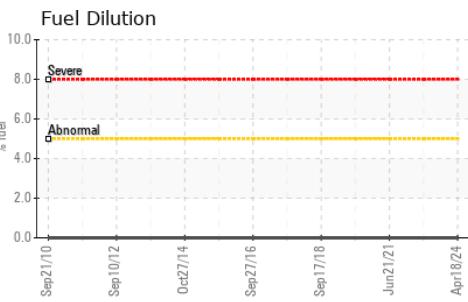
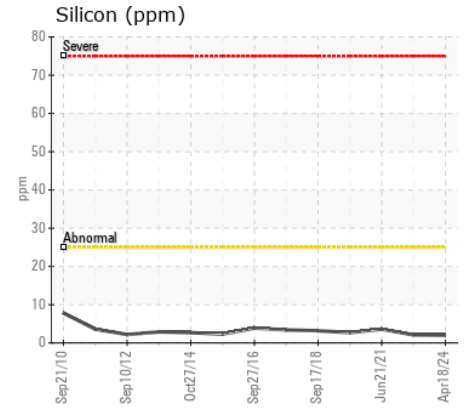
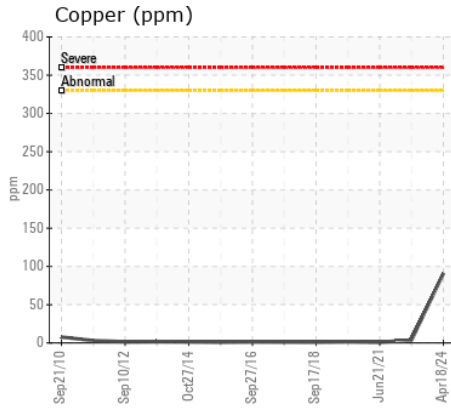
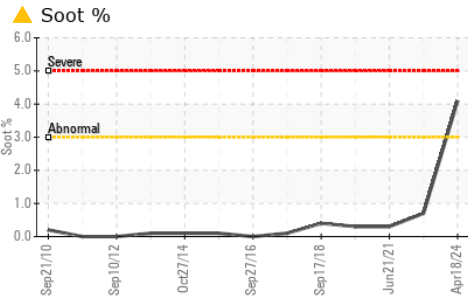
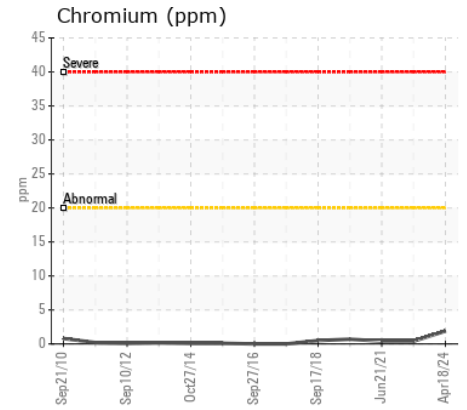
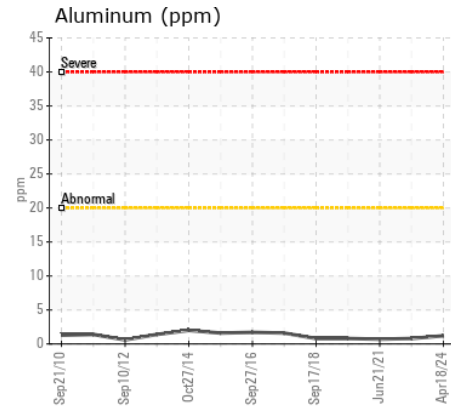
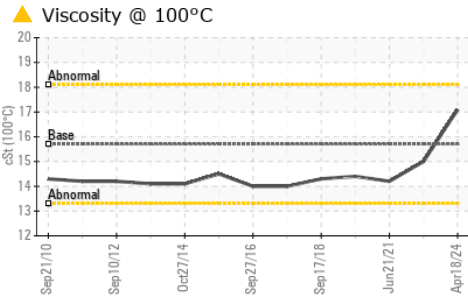
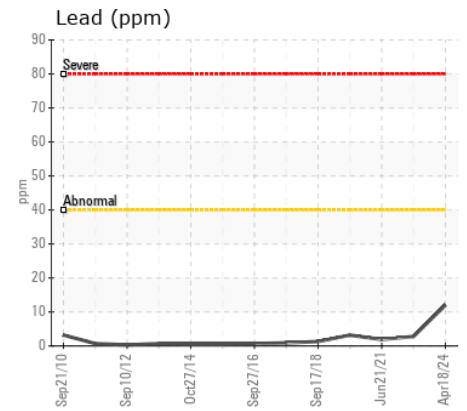
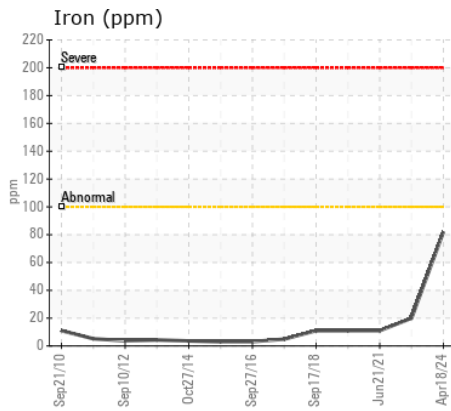
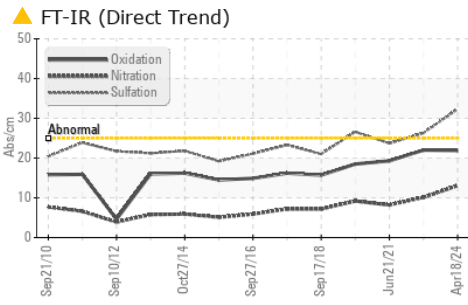
Light concentration of carbon/soot present in the oil. Tests indicate that there is no fuel present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	4
Potassium	ppm	ASTM D5185(m)	>20	4	7	6
Fuel	%	ASTM D7593*	>5	0.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	▲ 4.1	0.7	0.3
Nitration	Abs/cm	ASTM D7624*	>20	13.1	10.1	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	32.3	26.3	23.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		3	3	4
Boron	ppm	ASTM D5185(m)	35	54	103	143
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	33	<1	2
Manganese	ppm	ASTM D5185(m)	0	1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	537	13	30
Calcium	ppm	ASTM D5185(m)	2340	1925	2355	2227
Phosphorus	ppm	ASTM D5185(m)	1110	1042	1067	999
Zinc	ppm	ASTM D5185(m)	1210	1303	1195	1208
Sulfur	ppm	ASTM D5185(m)	3890	2496	2959	3077
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.9	22.0	19.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	▲ 17.1	15.0	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021287
Lab Number : 02632285
Unique Number : 5773438
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Received : 30 Apr 2024
Tested : 01 May 2024
Diagnosed : 01 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.

Wajax Power Systems
 70 Raddall Avenue
 Dartmouth, NS
 CA B3B 1T7
 Contact: Danelle Hoffman
 dhoffman@wajax.com
 T: (902)468-6200
 F: (902)468-3325