



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
WJAX [6100276643]

Machine Id
DDC 08VF177955

Component
Diesel Engine

Fluid
SHELL ROTELLA T 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021284	WA0019230	WA0018459
Sample Date		Client Info		02 May 2024	20 Apr 2023	14 Sep 2022
Machine Age	hrs	Client Info		452	440	408
Oil Age	hrs	Client Info		0	35	25
Filter Age	hrs	Client Info		0	35	25
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	2	4	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	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	2	3	4
Copper	ppm	ASTM D5185(m)	>330	7	8	8
Tin	ppm	ASTM D5185(m)	>15	0	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

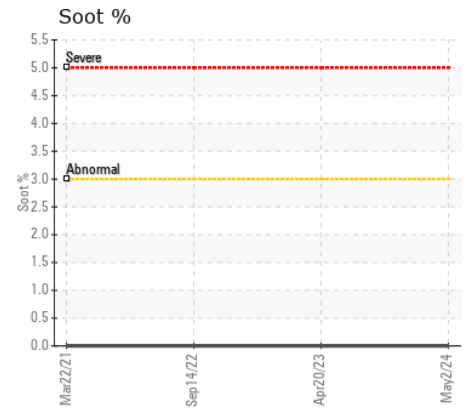
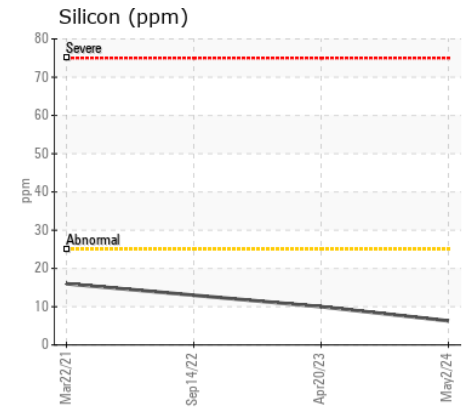
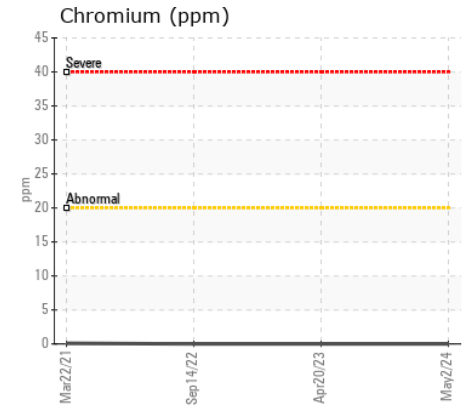
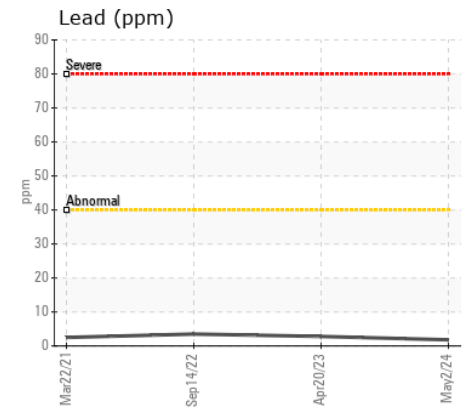
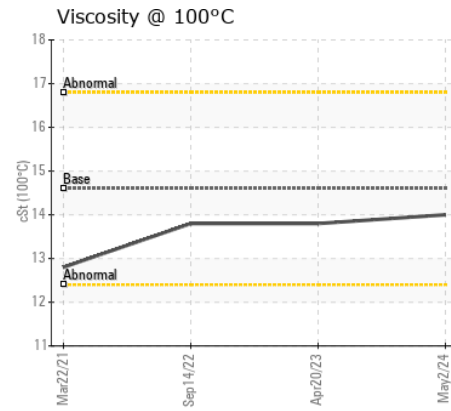
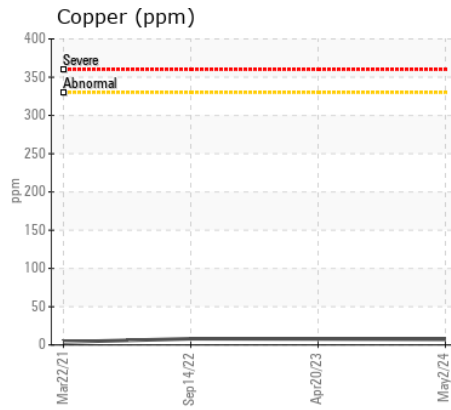
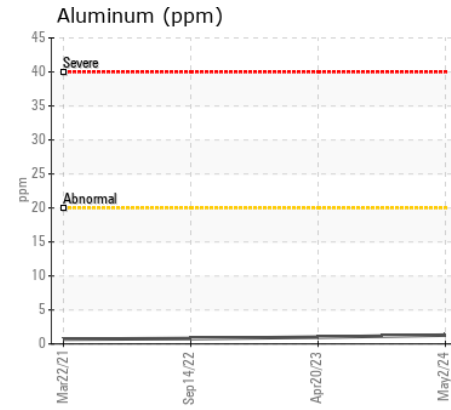
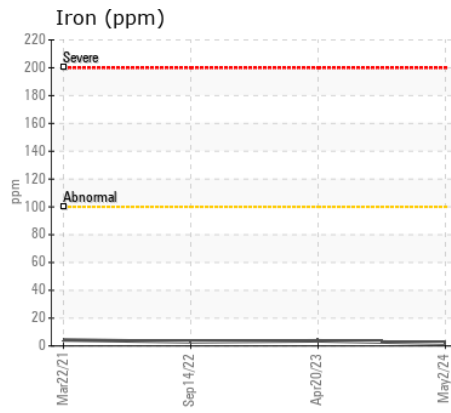
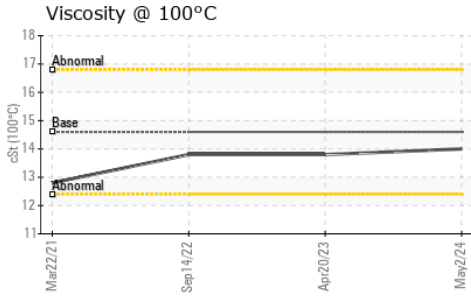
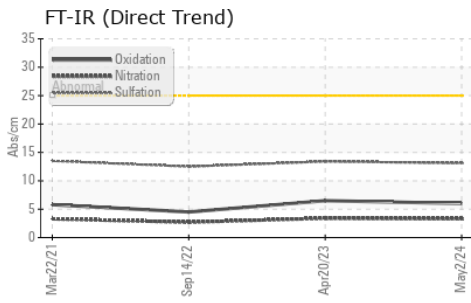
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	10	13
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.3	3.4	2.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.1	13.4	12.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	4	4
Boron	ppm	ASTM D5185(m)	0	<1	2	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	114	111	107
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	432	13	22	62
Calcium	ppm	ASTM D5185(m)	1121	2614	2655	2534
Phosphorus	ppm	ASTM D5185(m)	996	990	1037	1028
Zinc	ppm	ASTM D5185(m)	881	1099	1079	1068
Sulfur	ppm	ASTM D5185(m)		2761	2747	2741
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.0	6.5	4.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.6	14.0	13.8	13.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021284
Lab Number : 02633816
Unique Number : 5774969
Test Package : MOB 1

Received : 07 May 2024
Tested : 07 May 2024
Diagnosed : 07 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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