



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
[6100262194]
Machine Id
DEVITZ 00705858
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0021154	WA0015985	WA0015136
Sample Date		Client Info		27 Feb 2024	22 Feb 2021	04 Feb 2020
Machine Age	hrs	Client Info		258	192	165
Oil Age	hrs	Client Info		0	26	0
Filter Age	hrs	Client Info		0	26	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	5	6	12
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	3
Lead	ppm	ASTM D5185(m)	>40	1	<1	3
Copper	ppm	ASTM D5185(m)	>330	2	3	13
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

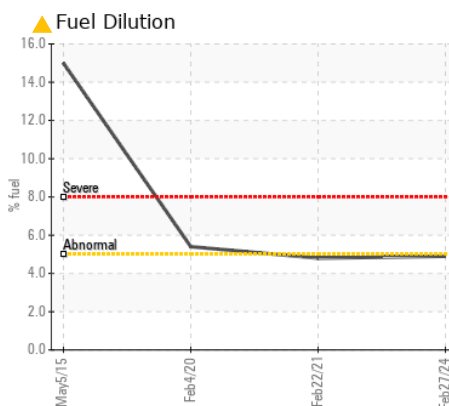
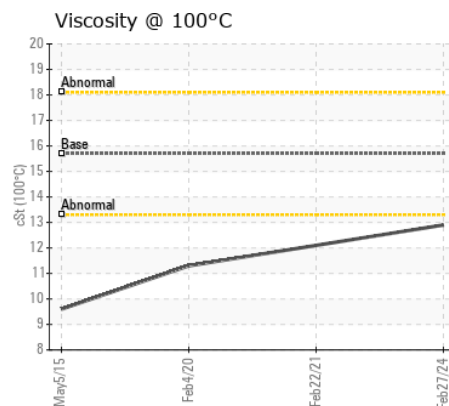
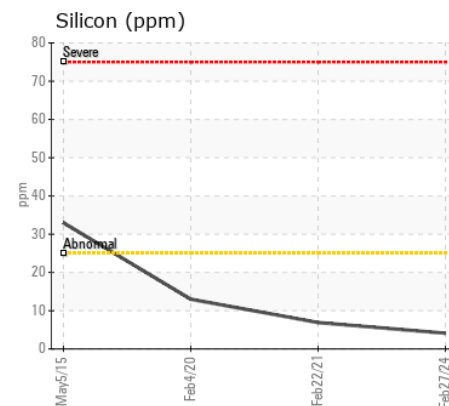
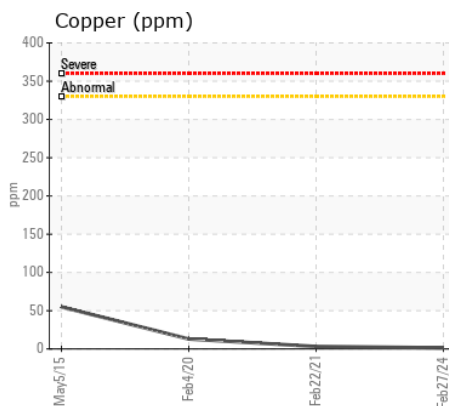
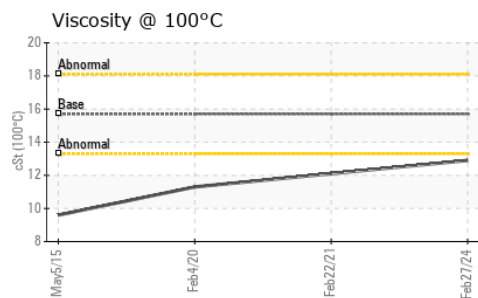
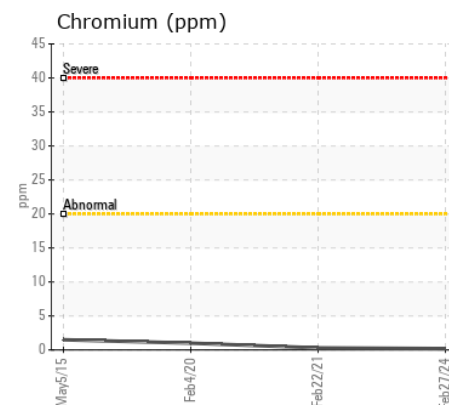
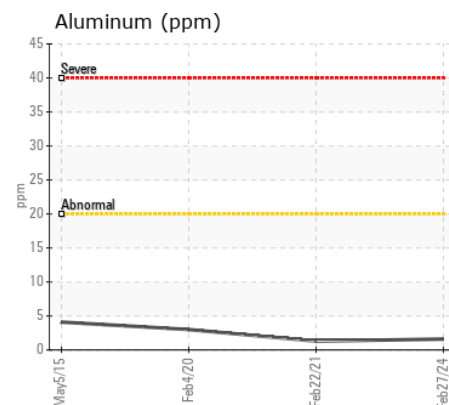
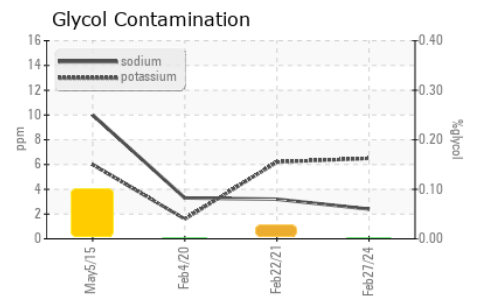
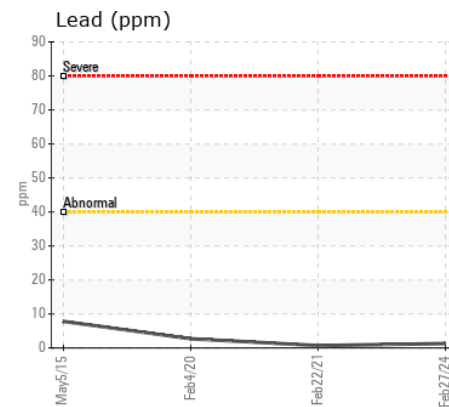
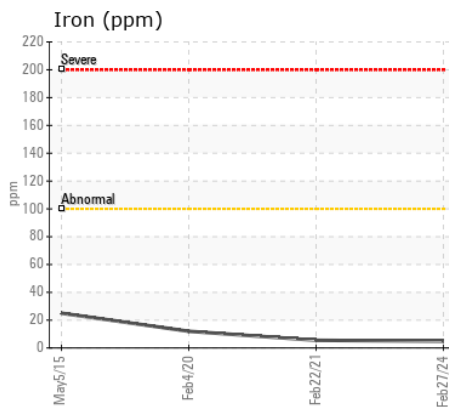
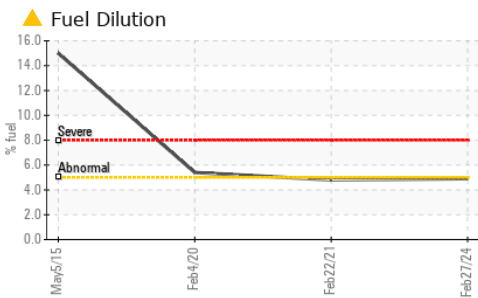
Light fuel dilution occurring. Test for glycol is negative. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	13
Potassium	ppm	ASTM D5185(m)	>20	6	▲ 6	2
Fuel	%	ASTM D7593*	>5	▲ 4.9	▲ 4.8	▲ 5.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	▲ 0.027	0.0
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.7	6.0	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.4	21.9
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
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)		2	3	3
Boron	ppm	ASTM D5185(m)	35	147	158	85
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	6	<1	<1
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	10	119	19	51
Calcium	ppm	ASTM D5185(m)	2340	1967	2077	2259
Phosphorus	ppm	ASTM D5185(m)	1110	956	924	912
Zinc	ppm	ASTM D5185(m)	1210	1079	1110	1046
Sulfur	ppm	ASTM D5185(m)	3890	2987	3151	3481
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.8	15.7	13.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	12.9	12.1	▲ 11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021154
Lab Number : 02620114
Unique Number : 5737224
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, Visual)

Received : 06 Mar 2024
Tested : 07 Mar 2024
Diagnosed : 07 Mar 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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