



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
115418
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033004	IL0032768	---
Sample Date		Client Info		10 Apr 2024	01 Nov 2023	---
Machine Age	mls	Client Info		41342	19248	---
Oil Age	mls	Client Info		22094	19248	---
Filter Age	mls	Client Info		22094	19248	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	60	110	---
Chromium	ppm	ASTM D5185m	>20	5	5	---
Nickel	ppm	ASTM D5185m	>2	0	1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	10	6	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	7	48	---
Tin	ppm	ASTM D5185m	>15	<1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

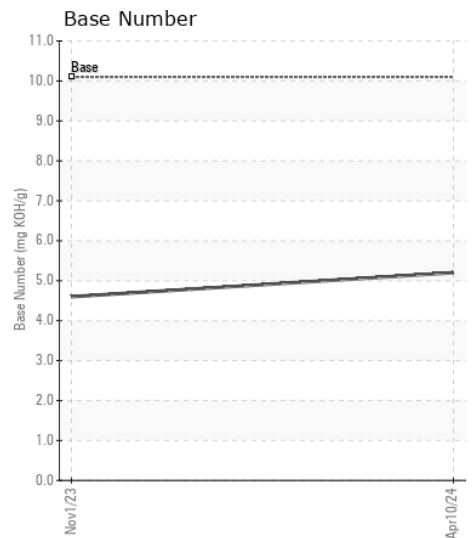
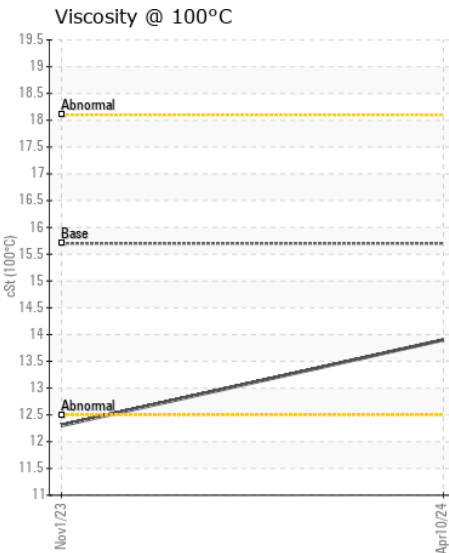
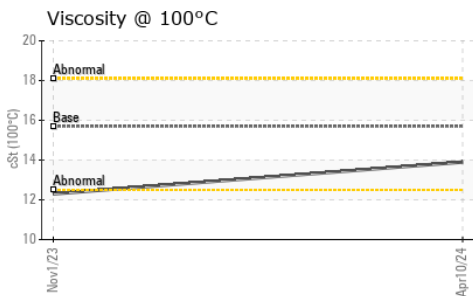
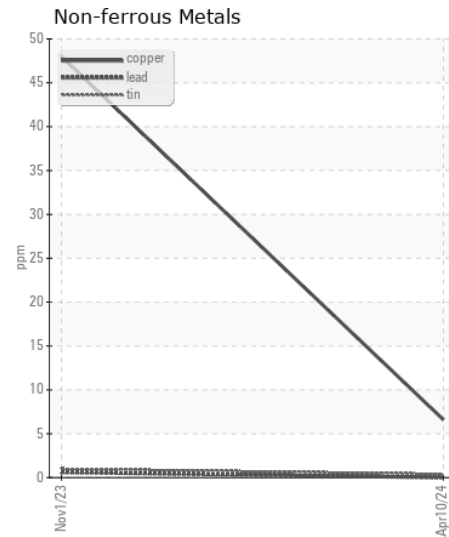
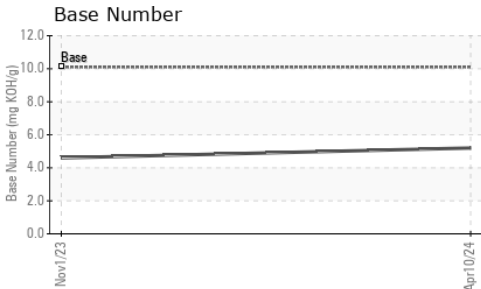
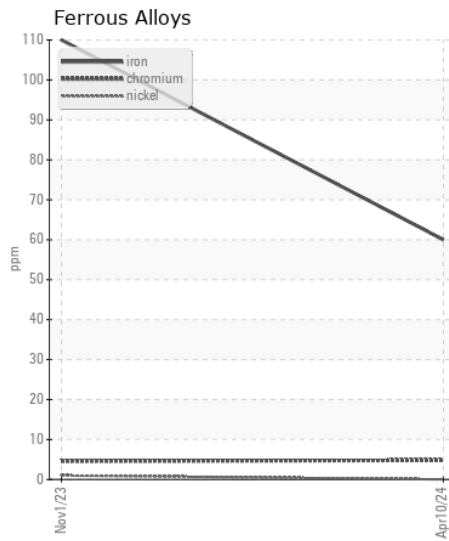
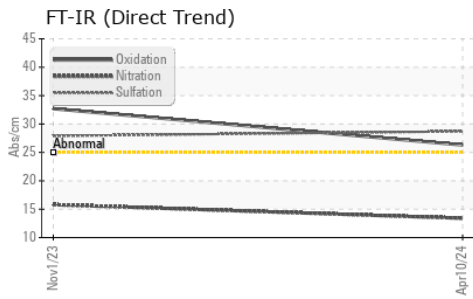
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	31	---
Potassium	ppm	ASTM D5185m	>20	20	10	---
Fuel		WC Method	>3.0	<1.0	▲ 1.8	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.9	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	13.4	15.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7	27.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	3	---
Boron	ppm	ASTM D5185m	316	38	19	---
Barium	ppm	ASTM D5185m	0.0	0	10	---
Molybdenum	ppm	ASTM D5185m	1.2	39	53	---
Manganese	ppm	ASTM D5185m		<1	8	---
Magnesium	ppm	ASTM D5185m	24	365	842	---
Calcium	ppm	ASTM D5185m	2292	2043	1281	---
Phosphorus	ppm	ASTM D5185m	1064	1063	791	---
Zinc	ppm	ASTM D5185m	1160	1283	948	---
Sulfur	ppm	ASTM D5185m	4996	2956	2183	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.3	32.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.2	4.6	---
Visc @ 100°C	cSt	ASTM D445	15.7	13.9	● 12.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : IL0033004

Lab Number : 06151806

Unique Number : 10981884

Test Package : FLEET

Received : 17 Apr 2024

Tested : 18 Apr 2024

Diagnosed : 19 Apr 2024 - Don Baldrige

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)