



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
AL-240
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013659	KL0007273	---
Sample Date		Client Info		14 May 2024	29 Apr 2023	---
Machine Age	mls	Client Info		601559	530623	---
Oil Age	mls	Client Info		70936	0	---
Filter Age	mls	Client Info		70936	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	12	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	1	<1	---
Lead	ppm	ASTM D5185m	>40	<1	4	---
Copper	ppm	ASTM D5185m	>330	<1	<1	---
Tin	ppm	ASTM D5185m	>15	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

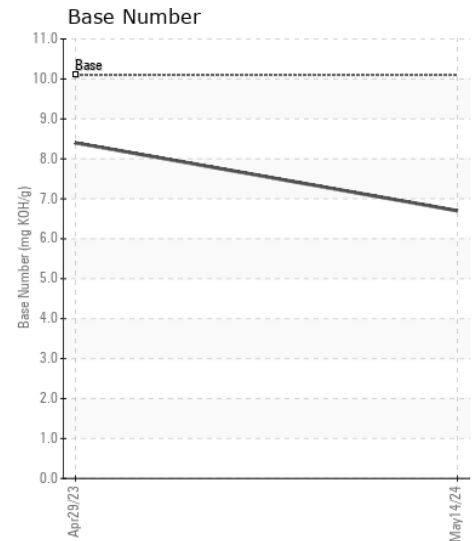
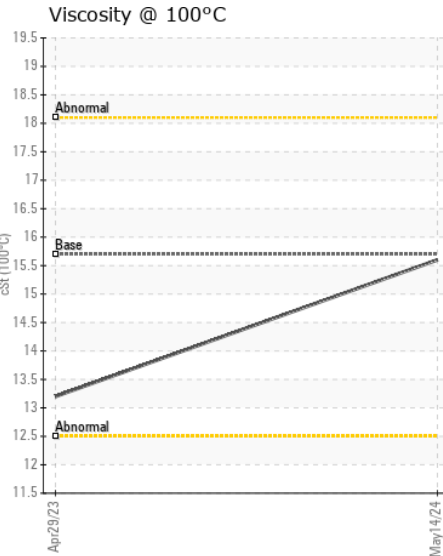
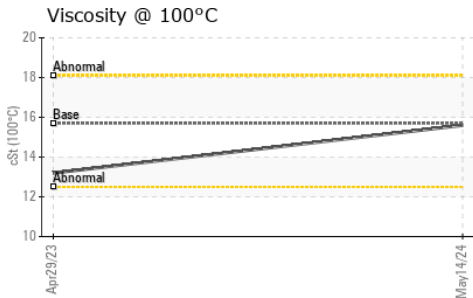
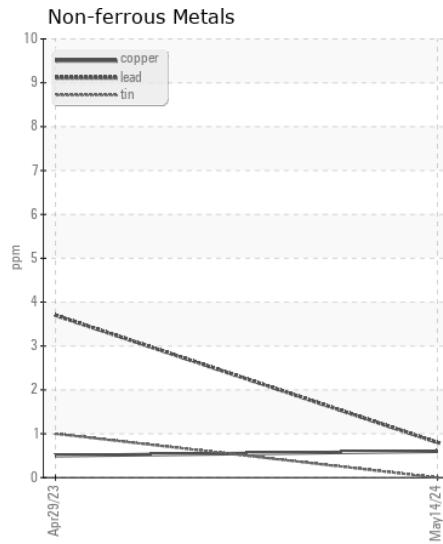
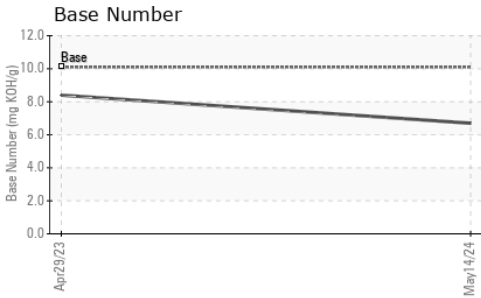
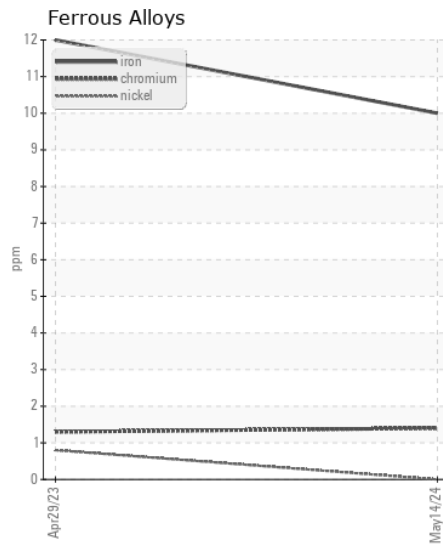
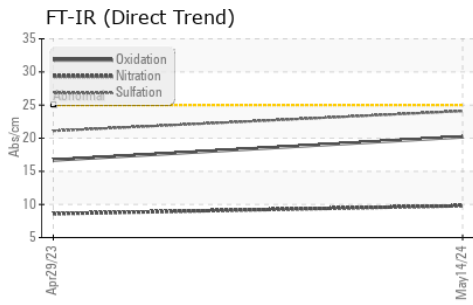
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	---
Potassium	ppm	ASTM D5185m	>20	5	2	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	21.1	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		8	2	---
Boron	ppm	ASTM D5185m	316	34	12	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	1.2	35	286	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	24	332	935	---
Calcium	ppm	ASTM D5185m	2292	1654	1167	---
Phosphorus	ppm	ASTM D5185m	1064	939	1230	---
Zinc	ppm	ASTM D5185m	1160	1114	1383	---
Sulfur	ppm	ASTM D5185m	4996	3594	4282	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	16.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.7	8.4	---
Visc @ 100°C	cSt	ASTM D445	15.7	15.6	13.2	---



Certificate L2367

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

Sample No. : KL0013659

Lab Number : 06197233

Unique Number : 11059356

Test Package : FLEET

Received : 03 Jun 2024

Tested : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

FTL LTD

2302 E DUPONT AVE

BELLE, WV

US 25015

Contact: JOHN SMITH

johnhotrodsmith@gmail.com

T:

F:

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)