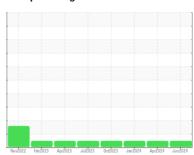


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id
2309
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

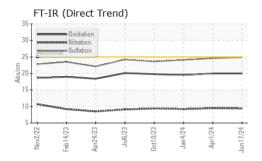
# **Fluid Condition**

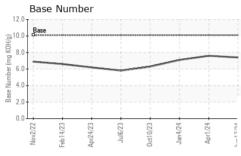
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

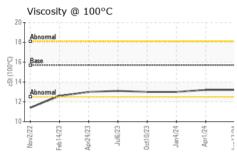
Nev2022 Feb2023 Apr2023 Jus2023 Oct2023 Jus2024 Apr2024 Jun2024									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0944454	WC0859258	WC0859300			
Sample Date		Client Info		17 Jun 2024	01 Apr 2024	04 Jan 2024			
Machine Age	mls	Client Info		152684	132006	112013			
Oil Age	mls	Client Info		0	0	0			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATION	V	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>90	17	19	16			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	<1	0	0			
Titanium	ppm	ASTM D5185m	>2	0	0	0			
Silver	ppm	ASTM D5185m	>2	<1	0	0			
Aluminum	ppm	ASTM D5185m	>20	12	10	12			
Lead	ppm	ASTM D5185m	>40	2	0	0			
Copper	ppm	ASTM D5185m	>330	<1	<1	<1			
Tin	ppm	ASTM D5185m	>15	<1	<1	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	316	193	213	264			
Barium	ppm	ASTM D5185m	0.0	0	0	0			
Molybdenum	ppm	ASTM D5185m	1.2	133	131	131			
Manganese	ppm	ASTM D5185m		<1	<1	0			
Magnesium	ppm	ASTM D5185m	24	712	701	668			
Calcium	ppm	ASTM D5185m	2292	1619	1689	1550			
Phosphorus	ppm	ASTM D5185m	1064	807	751	738			
Zinc	ppm	ASTM D5185m	1160	929	892	870			
Sulfur	ppm	ASTM D5185m	4996	3092	2997	2585			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	12	8	7			
Sodium	ppm	ASTM D5185m	00	3	2	<1			
Potassium	ppm	ASTM D5185m		21	19	25			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.5	9.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	24.6	24.1			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	20.0	19.5			
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.4	7.6	7.1			

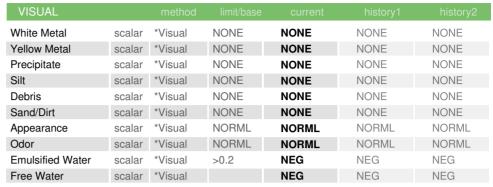


# **OIL ANALYSIS REPORT**



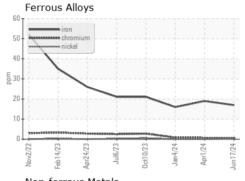


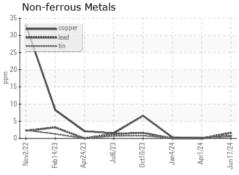


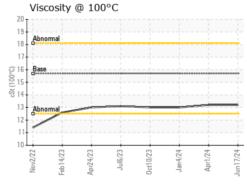


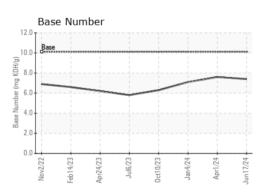
FLUID PROPER	HES	method	iimit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.7	13.2	13.2	13.0

## **GRAPHS**













Laboratory Sample No.

: WC0944454 Lab Number : 06217648 Unique Number : 11090512

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024 Diagnosed : 24 Jun 2024 - Wes Davis

11337 State Route 800 Magnolia, OH US 44643 Contact: Eddy Smith

eddy.smith@ergon.com

Ergon Trucking Inc. - MAG601

Test Package : FLEET Certificate 12367 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)

Report Id: ERGMAG601 [WUSCAR] 06217648 (Generated: 06/24/2024 22:30:14) Rev: 1

Submitted By: Eddy Smith

T:

F: