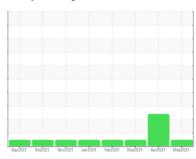


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 1014 Component Diesel Engine

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

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### Recommendation

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

#### 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.

		Sep2023 (	Det2023 Nov2023 Jan20	24 Feb 2024 Mar 2024 Apr 2024	May2024	
0.11.151.5.11.5051						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897906	WC0897881	WC0894000
Sample Date		Client Info		05 May 2024	23 Apr 2024	16 Mar 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	18	20	18
Chromium	ppm	ASTM D5185m	>20	1	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	2	<1
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	66	67	66
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	962	1058	1076
Calcium	ppm	ASTM D5185m	3000	1170	1176	1185
Phosphorus	ppm	ASTM D5185m	1150	1133	1123	1142
Zinc	ppm	ASTM D5185m	1350	1283	1384	1405
Sulfur	ppm	ASTM D5185m	4250	3347	3561	3782
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	21	24	7
Sodium	ppm	ASTM D5185m	>158	0	<u>▲</u> 163	58
Potassium	ppm	ASTM D5185m	>20	6	<b>▲</b> 37	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.4	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.0	20.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	17.5	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	7.1	7.0
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# OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06176785 Unique Number : 11022838

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897906

Received **Tested** Diagnosed

: 13 May 2024 : 14 May 2024

: 14 May 2024 - Wes Davis

US 27701 Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com T:

**GO DURHAM - RAPT** 

DURHAM, NC

1903 FAYETTEVILLE ST

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.

Test Package : MOB 1 ( Additional Tests: TBN )

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

Report Id: GODDUR [WUSCAR] 06176785 (Generated: 05/14/2024 04:28:29) Rev: 1

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