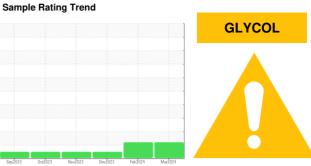


# **OIL ANALYSIS REPORT**



Machine Id 1003 Component

Diesel Engine

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

## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

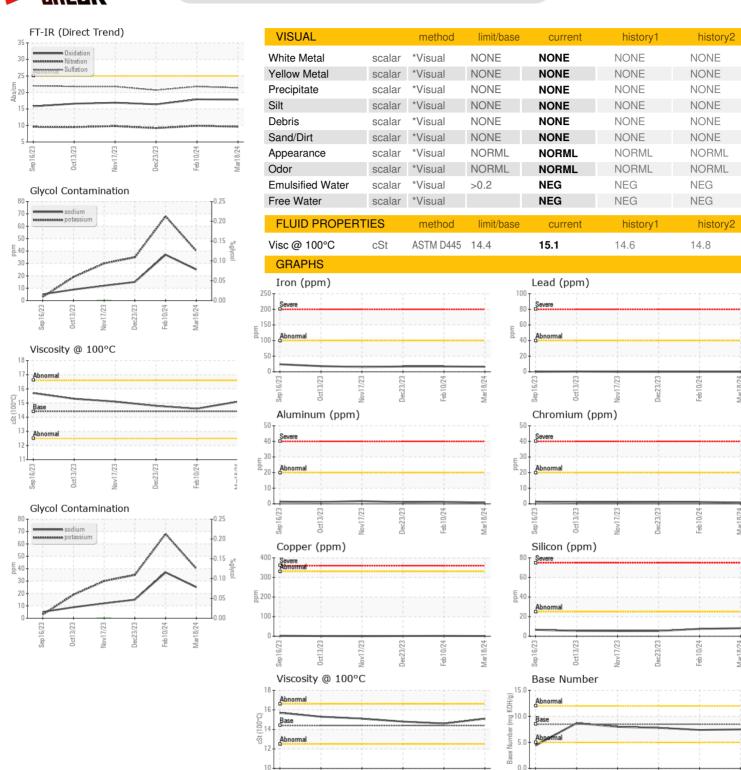
#### **Fluid Condition**

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

		Sep 2023	Oct2023 Nov2023	Dec2023 Feb2024	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894001	WC0893994	WC0868132
Sample Date		Client Info		18 Mar 2024	10 Feb 2024	23 Dec 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	16	17	17
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	<1	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	68	64	66
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	450	1084	1088	1092
Calcium	ppm	ASTM D5185m	3000	1183	1152	1235
Phosphorus	ppm	ASTM D5185m	1150	1138	1085	1128
Zinc	ppm	ASTM D5185m	1350	1403	1368	1448
Sulfur	ppm	ASTM D5185m	4250	3888	3027	3313
CONTAMINANTS	<b>)</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	5
Sodium	ppm	ASTM D5185m	>158	25	37	15
Potassium	ppm	ASTM D5185m	>20	<b>40</b>	<b>▲</b> 68	35
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	1.1	1.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.9	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.8	20.7
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	17.9	16.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.4	7.8
	39					



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0894001

Sep16/23

Lab Number : 06137127 Unique Number : 10956592 Received : 03 Apr 2024 **Tested** Diagnosed

Feb 10/24

: 05 Apr 2024 : 05 Apr 2024 - Sean Felton Test Package : MOB 1 ( Additional Tests: Glycol, TBN )

Mar18/24

1903 FAYETTEVILLE ST DURHAM, NC US 27701 Contact: Robert Iosiniecki

Robert.losiniecki@ratpdev.com

**GO DURHAM - RAPT** 

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: GODDUR [WUSCAR] 06137127 (Generated: 04/05/2024 22:32:01) Rev: 1

Contact/Location: Robert Iosiniecki - GODDUR

T:

F: