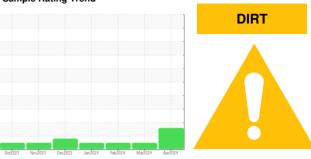


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id
1204
Component
Diesel Engine

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

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### **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.

		0ct2023	Nov2023 Dec2023	Jan 2024 Feb 2024 Mar 2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897845	WC0893959	WC0893971
Sample Date		Client Info		30 Apr 2024	25 Mar 2024	27 Feb 2024
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	NORMAL	NORMAL
CONTAMINATIO	N	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	21	10	11
Chromium	ppm	ASTM D5185m		2	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum 	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m		4	0	2
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>15	<1 <1	<1	<1 0
Cadmium	ppm	ASTM D5185m		<1 <1	0	0
ADDITIVES	ppm	method	limit/base			
				current	history1	history2
Boron	ppm	ASTM D5185m	250	0 2	0	0
Barium	ppm	ASTM D5185m		62	63	60
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	100	<1	0	0
Magnesium	ppm	ASTM D5185m	450	909	1042	1062
Calcium	ppm	ASTM D5185m		1128	1158	1142
Phosphorus	ppm	ASTM D5185m	1150	1075	1122	1079
Zinc	ppm	ASTM D5185m	1350	1237	1372	1319
Sulfur	ppm	ASTM D5185m	4250	3171	3732	3199
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	6	4
Sodium	ppm	ASTM D5185m	>158	<1	2	1
Potassium	ppm	ASTM D5185m	>20	5	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.4	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	21.8	22.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.2	22.1	22.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	6.3	6.3



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06176791

: WC0897845 Unique Number : 11022844

Received **Tested** Diagnosed

: 13 May 2024 : 14 May 2024

: 14 May 2024 - Sean Felton

DURHAM, NC US 27701 Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com

**GO DURHAM - RAPT** 

1903 FAYETTEVILLE ST

Certificate 12367

Test Package: MOB 1 (Additional Tests: TBN) 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] 06176791 (Generated: 05/14/2024 15:35:43) Rev: 1

Contact/Location: Robert Iosiniecki - GODDUR

T:

F: