

# **OIL ANALYSIS REPORT**

[62005500063]

21

Component

**Diesel Engine** 

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

# Sample Rating Trend



# Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

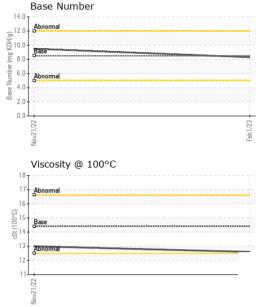
## **Fluid Condition**

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

			Nov2022	Feb 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0723390	WC0723381	
Sample Date		Client Info		01 Feb 2023	21 Nov 2022	
Machine Age	mls	Client Info		129825	124509	
Oil Age	mls	Client Info		5000	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	38	21	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	7	5	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	37	65	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	9	8	
Manganese	ppm	ASTM D5185m		1	<1	
Magnesium	ppm	ASTM D5185m	450	688	688	
Calcium	ppm	ASTM D5185m	3000	1336	1383	
Phosphorus	ppm	ASTM D5185m	1150	998	1028	
Zinc	ppm	ASTM D5185m	1350	1212	1228	
Sulfur	ppm	ASTM D5185m	4250	3924	3931	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	
Sodium	ppm	ASTM D5185m	>158	3	3	
Potassium	ppm	ASTM D5185m	>20	5	5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	9.5	



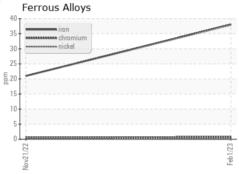
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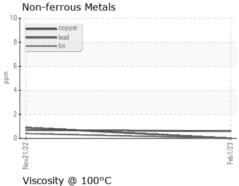


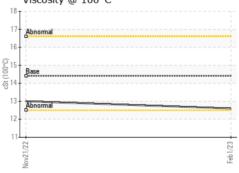
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID DDODEDT					111	1

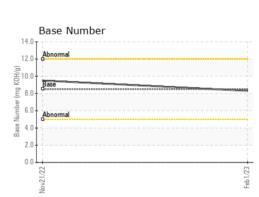
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	13.0	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10444143

: WC0723390 : 05830650 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2023 Diagnosed : 27 Apr 2023

Diagnostician : Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 27379 Contact: DEBRA MOORE debra.moore@caswell.k12.nc.us T: (336)694-4116

353 COUNTY HOME ROAD

YANCEYVILLE, NC

**CASWELL COUNTY SCHOOL BUS** 

\* - 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)

Contact/Location: DEBRA MOORE - CASYANNC

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