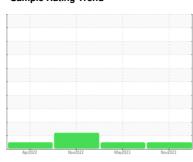


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 9917 Component Diesel Engine

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

### DIAGNOSIS

## 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

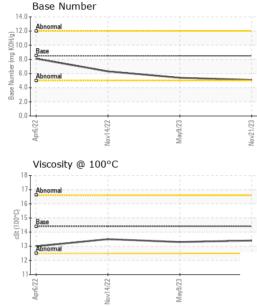
## **Fluid Condition**

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

		Apr202	2 Nov2022	May2023 N	ov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0844926	WC0810343	WC0744307
Sample Date		Client Info		21 Nov 2023	09 May 2023	14 Nov 2022
Machine Age	mls	Client Info		347158	341664	336073
Oil Age	mls	Client Info		0	6000	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	V	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	42	30	53
Chromium	ppm	ASTM D5185m	>20	2	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	1	3
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	5	10
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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	15	21	15
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	100	83	82	70
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	246	197	311
Calcium	ppm	ASTM D5185m		2081	2029	1778
Phosphorus	ppm	ASTM D5185m	1150	1048	1062	915
Zinc	ppm	ASTM D5185m	1350	1284	1298	1150
Sulfur	ppm	ASTM D5185m		3304	3969	3572
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	10
Sodium	ppm	ASTM D5185m	>158	8	13	<u>^</u> 64
Potassium	ppm	ASTM D5185m	>20	<1	2	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.7	1.3	2.7
Nitration	Abs/cm	*ASTM D7624		11.8	11.0	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	25.1	30.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	20.6	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.1	5.4	6.3



# **OIL ANALYSIS REPORT**

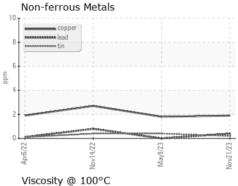


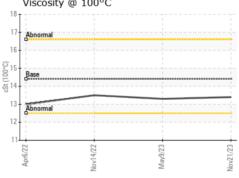
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

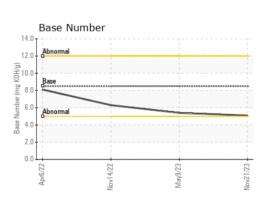
FLUID PROPERTIES		memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.3	13.5

## **GRAPHS**

# Ferrous Alloys











Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10777319

: WC0844926 : 06027528

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023 Diagnosed Diagnostician : Wes Davis

: 08 Dec 2023

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)

6900 MILLHOUSE RD CHAPEL HILL, NC US 27516 Contact: Lisa DePasqua

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