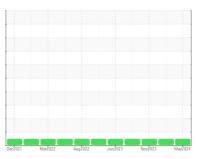


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 1908 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

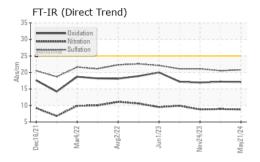
## **Fluid Condition**

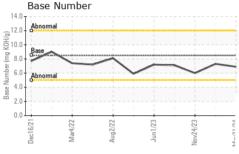
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

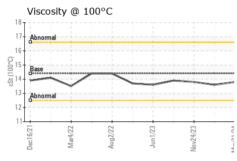
		Dec2021	Mar2022 Aug2022	Jun2023 Nov2023	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887562	WC0887582	WC0844998
Sample Date		Client Info		21 May 2024	12 Feb 2024	24 Nov 2023
Machine Age	mls	Client Info		122454	0	111352
Oil Age	mls	Client Info		6000	0	6000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	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	8	7	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	106	43	153
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	68	68	76
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	374	354	294
Calcium	ppm	ASTM D5185m	3000	1576	1771	1604
Phosphorus	ppm	ASTM D5185m	1150	1001	1094	988
Zinc	ppm	ASTM D5185m	1350	1177	1286	1208
Sulfur	ppm	ASTM D5185m	4250	3481	3393	3190
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	9
Sodium	ppm	ASTM D5185m		10	4	6
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.5	21.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.2	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9	7.3	6.0

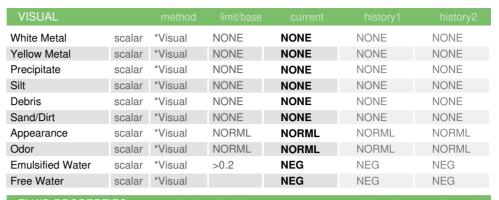


# **OIL ANALYSIS REPORT**



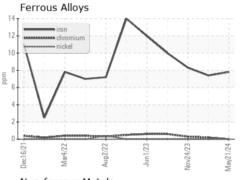


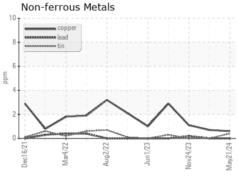


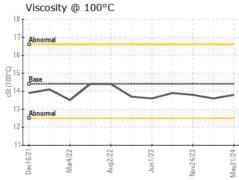


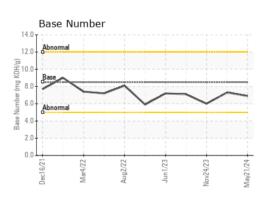
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.6	13.8

## **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WC0887562 Lab Number : 06196194

Unique Number : 11058317 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024

**Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

US 27516 Contact: Lisa DePasqua Idepasqua@townofchapelhill.org T: (919)696-4941

**TOWN OF CHAPEL HILL** 

6900 MILLHOUSE RD

CHAPEL HILL, NC

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: TOWCHANC [WUSCAR] 06196194 (Generated: 06/03/2024 08:58:44) Rev: 1