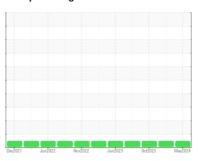


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 1906 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 oil

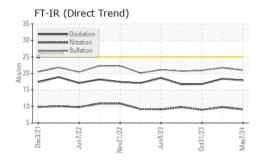
## **Fluid Condition**

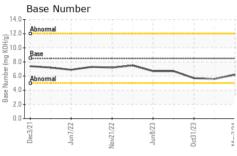
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

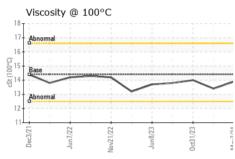
		Dec2021	Jun2022 Nov2022	Jun2023 Oct2023	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000161	WC0887592	WC0860374
Sample Date		Client Info		07 May 2024	06 Feb 2024	31 Oct 2023
Machine Age	mls	Client Info		0	132902	127468
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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	6	8	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	4
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	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	112	92	115
Barium	ppm	ASTM D5185m	10	0	10	0
Molybdenum	ppm	ASTM D5185m	100	70	78	77
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	353	206	290
Calcium	ppm	ASTM D5185m	3000	1571	1565	1627
Phosphorus	ppm	ASTM D5185m	1150	997	889	989
Zinc	ppm	ASTM D5185m	1350	1160	1095	1250
Sulfur	ppm	ASTM D5185m	4250	3464	3320	3297
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	9	9
Sodium	ppm	ASTM D5185m	>158	5	5	5
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.8	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.7	20.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	18.4	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.2	5.6	5.7

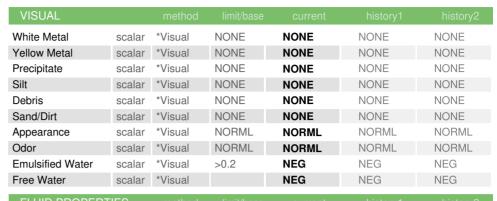


# **OIL ANALYSIS REPORT**



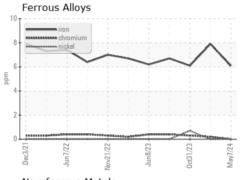


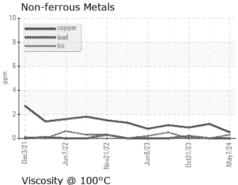


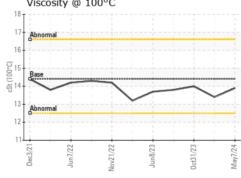


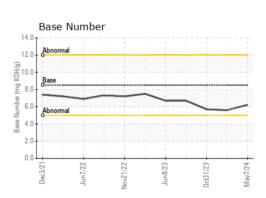
FLUID PROPERTIES			method			riistory i	HISTORYZ	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.4	14.0	

### **GRAPHS**













Sample No.

: HRE0000161 Lab Number : 06196200 Unique Number : 11058323 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

Certificate 12367 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)

**TOWN OF CHAPEL HILL** 

6900 MILLHOUSE RD CHAPEL HILL, NC US 27516

Contact: Lisa DePasqua Idepasqua@townofchapelhill.org

T: (919)696-4941

Report Id: TOWCHANC [WUSCAR] 06196200 (Generated: 06/03/2024 08:58:35) Rev: 1

Contact/Location: Lisa DePasqua - TOWCHANC