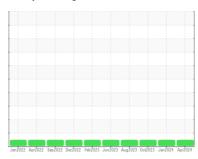


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 1904 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

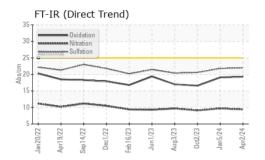
## **Fluid Condition**

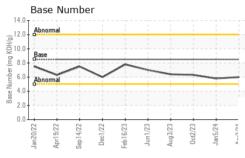
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

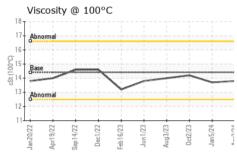
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		HRE0000112	WC0810307	WC0860400			
Sample Date		Client Info		02 Apr 2024	05 Jan 2024	02 Oct 2023			
Machine Age	mls	Client Info		132853	0	121810			
Oil Age	mls	Client Info		0	0	0			
Oil Changed		Client Info		Changed	N/A	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATIO	Ν	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	12	10	8			
Chromium	ppm	ASTM D5185m	>20	<1	<1	0			
Nickel	ppm	ASTM D5185m	>4	<1	0	0			
Titanium	ppm	ASTM D5185m		2	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	3	2	2			
Lead	ppm	ASTM D5185m	>40	0	0	0			
Copper	ppm	ASTM D5185m	>330	10	1	<1			
Tin	ppm	ASTM D5185m	>15	<1	0	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	250	105	101	72			
Barium	ppm	ASTM D5185m	10	<1	3	0			
Molybdenum	ppm	ASTM D5185m	100	71	82	75			
Manganese	ppm	ASTM D5185m		0	0	0			
Magnesium	ppm	ASTM D5185m	450	311	214	271			
Calcium	ppm	ASTM D5185m	3000	1507	1740	1706			
Phosphorus	ppm	ASTM D5185m	1150	887	939	946			
Zinc	ppm	ASTM D5185m	1350	1056	1149	1191			
Sulfur	ppm	ASTM D5185m	4250	2726	3730	3157			
CONTAMINANTS	3	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	8	8	7			
Sodium	ppm	ASTM D5185m	>158	5	2	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	9.4	9.7	9.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.8	20.6			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	19.1	16.6			
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	5.8	6.3			
,	, ,								

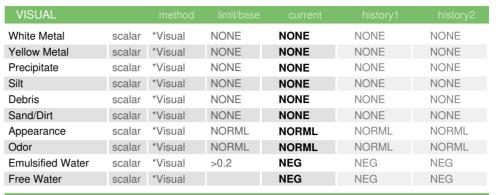


# **OIL ANALYSIS REPORT**



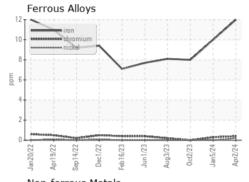


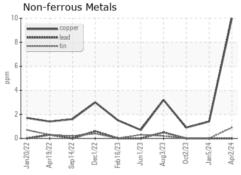


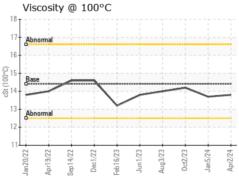


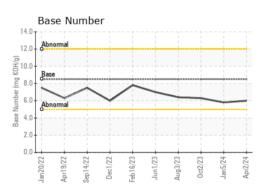
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.7	14.2

### **GRAPHS**













Certificate 12367

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : HRE0000112 Lab Number : 06148467 Unique Number : 10978545

Test Package : FLEET

Received : 15 Apr 2024 **Tested** : 16 Apr 2024 Diagnosed

: 16 Apr 2024 - Wes Davis

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

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

**TOWN OF CHAPEL HILL** 

6900 MILLHOUSE RD

CHAPEL HILL, NC

\* - 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)