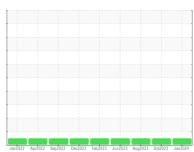


# **OIL ANALYSIS REPORT**

### **Sample Rating Trend**







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 oil

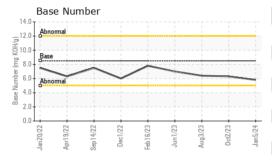
#### **Fluid Condition**

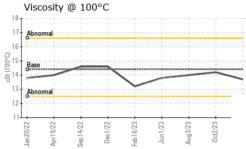
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Jani2022 Apri2022 Sep2022 Dec2022 Feb2023 Juni2023 Aug2023 0-2023 Jani2024							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0810307	WC0860400	WC0844958	
Sample Date		Client Info		05 Jan 2024	02 Oct 2023	03 Aug 2023	
Machine Age	mls	Client Info		0	121810	116294	
Oil Age	mls	Client Info		0	0	0	
Oil Changed		Client Info		N/A	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	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	10	8	8	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	<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	3	
Tin	ppm	ASTM D5185m	>15	0	0	<1	
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	101	72	14	
Barium	ppm	ASTM D5185m	10	3	0	0	
Molybdenum	ppm	ASTM D5185m	100	82	75	82	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	450	214	271	276	
Calcium	ppm	ASTM D5185m	3000	1740	1706	1968	
Phosphorus	ppm	ASTM D5185m	1150	939	946	981	
Zinc	ppm	ASTM D5185m	1350	1149	1191	1291	
Sulfur	ppm	ASTM D5185m	4250	3730	3157	3992	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	8	7	6	
Sodium	ppm	ASTM D5185m	>158	2	5	8	
Potassium	ppm	ASTM D5185m	>20	2	<1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.1	9.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	20.6	20.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	16.6	17.0	
Base Number (BN)	mg KOH/g	ASTM D2896		5.8	6.3	6.4	
	0						



## **OIL ANALYSIS REPORT**

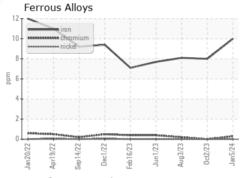


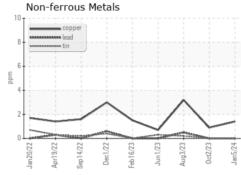


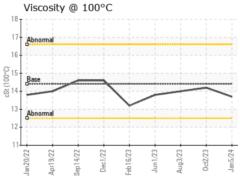
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

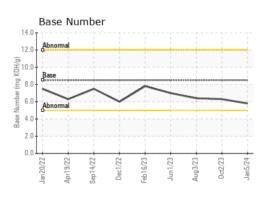
FLUID PROPER	TIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	14.2	14.0

#### **GRAPHS**













Laboratory Sample No. Lab Number Unique Number : 10835510

: WC0810307 : 06064128 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 : 19 Jan 2024 Diagnosed

Diagnostician : Wes Davis

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] 06064128 (Generated: 01/19/2024 08:39:10) Rev: 1

Contact/Location: Lisa DePasqua - TOWCHANC