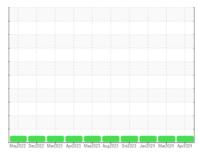


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 1756

Component

Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (--- GAL)

RNOSIS	141	М
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#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

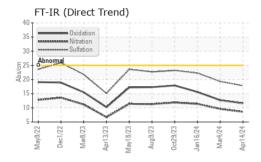
### **Fluid Condition**

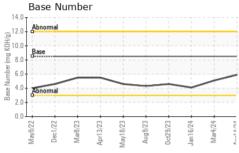
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

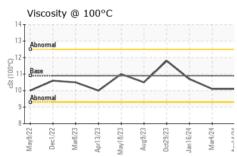
		may2022 Dec2	ozz marzoza Aprzoza mayz	023 Aug2023 Oct2023 Jan2024 Mar2	uza Aprzuza	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000095	WC0887598	WC0810314
Sample Date		Client Info		14 Apr 2024	04 Mar 2024	16 Jan 2024
Machine Age	mls	Client Info		91291	89536	0
Oil Age	mls	Client Info		6000	6000	0
Oil Changed		Client Info		Changed	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	6	5	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	64	45	23
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	100	215	217	203
Manganese	ppm	ASTM D5185m		1	2	3
Magnesium	ppm	ASTM D5185m	450	571	583	589
Calcium	ppm	ASTM D5185m	3000	1248	1135	1101
Phosphorus	ppm	ASTM D5185m	1150	578	555	553
Zinc	ppm	ASTM D5185m	1350	682	708	717
Sulfur	ppm	ASTM D5185m	4250	2702	2579	2376
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	17	18
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.6	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.3	22.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.6	12.7	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.9	5.1	4.1
()	0 - 9					

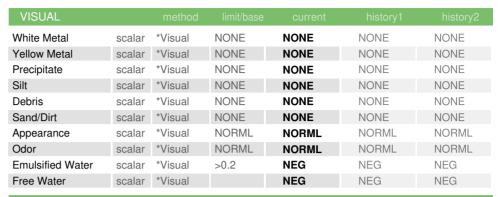


## **OIL ANALYSIS REPORT**





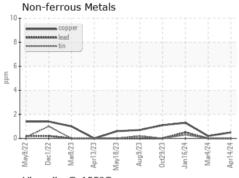


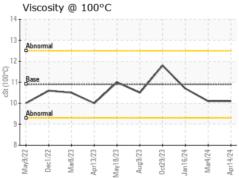


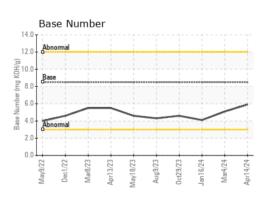
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	10.1	10.1	10.7

#### **GRAPHS**

# Ferrous Alloys 20











Certificate 12367

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : HRE0000095 Lab Number : 06148470 Unique Number : 10978548

Test Package : FLEET

Received : 15 Apr 2024 **Tested** Diagnosed

: 16 Apr 2024

: 17 Apr 2024 - Jonathan Hester

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

**TOWN OF CHAPEL HILL** 

6900 MILLHOUSE RD

CHAPEL HILL, NC

US 27516

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] 06148470 (Generated: 04/17/2024 13:24:43) Rev: 1