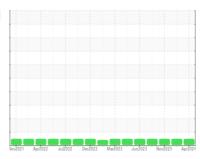


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

Component

Diesel Engine

Fluid

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

		IS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

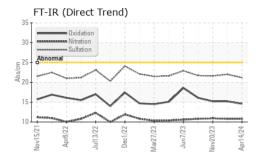
Fluid Condition

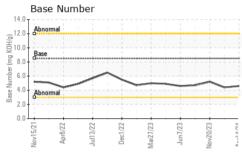
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

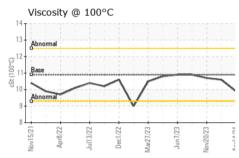
		Vov2021 Apr	2022 Jul2022 Dec202	. Marž023 Junž023 Novž0.	23 Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000093	WC0810312	WC0860417
Sample Date		Client Info		14 Apr 2024	16 Jan 2024	20 Nov 2023
Machine Age	mls	Client Info		132908	0	124315
Oil Age	mls	Client Info		6000	0	6000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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	9	6
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m		<1	<1	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	33	28	31
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	189	199	202
Manganese	ppm	ASTM D5185m		4	4	2
Magnesium	ppm	ASTM D5185m	450	596	589	628
Calcium	ppm	ASTM D5185m	3000	1206	1076	1185
Phosphorus	ppm	ASTM D5185m	1150	631	561	504
Zinc	ppm	ASTM D5185m	1350	711	685	736
Sulfur	ppm	ASTM D5185m	4250	2803	2476	2512
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	19	18	11
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.8	10.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	22.0	21.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.2	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.6	4.4	5.2

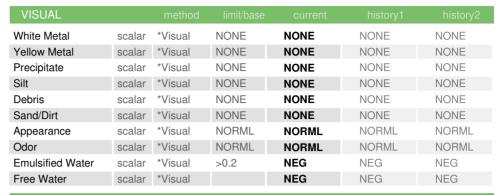


OIL ANALYSIS REPORT



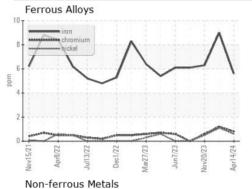


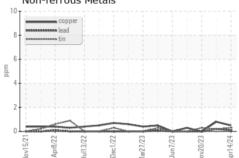


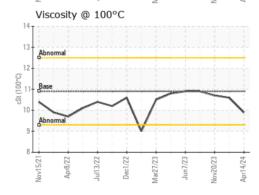


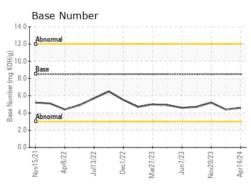
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	9.9	10.6	10.7

GRAPHS













Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06148461 Unique Number : 10978539

: HRE0000093 Test Package : FLEET

Received : 15 Apr 2024 **Tested**

: 16 Apr 2024

Diagnosed

: 17 Apr 2024 - Jonathan Hester

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. st - 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] 06148461 (Generated: 04/17/2024 13:24:51) Rev: 1