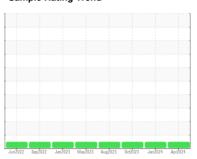


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 1303 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

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

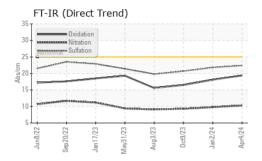
Fluid Condition

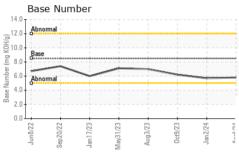
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

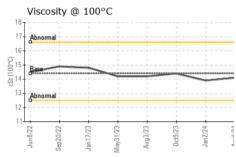
		Jun2022 8	Sep 2022 Jan 2023 May 20	23 Aug2023 Oct2023 Jan2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HRE0000119	WC0810302	WC0860370
Sample Date		Client Info		04 Apr 2024	02 Jan 2024	09 Oct 2023
Machine Age	mls	Client Info		34682	0	310117
Oil Age	mls	Client Info		6000	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	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	15	12	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	3	2	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	29	75	46
Barium	ppm	ASTM D5185m	10	<1	3	0
Molybdenum	ppm	ASTM D5185m	100	70	81	77
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	450	306	225	274
Calcium	ppm	ASTM D5185m		1772	1709	1755
Phosphorus	ppm	ASTM D5185m	1150	1032	914	947
Zinc	ppm	ASTM D5185m	1350	1184	1165	1200
Sulfur	ppm	ASTM D5185m		3332	3579	3186
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	6
Sodium	ppm	ASTM D5185m	>158	4	2	4
Potassium	ppm	ASTM D5185m	>20	1	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.8	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.8	20.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	18.1	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.8	5.7	6.2

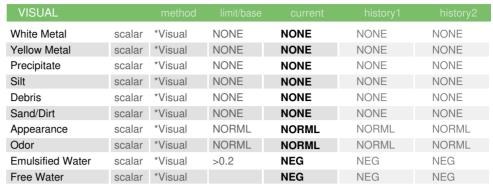


OIL ANALYSIS REPORT



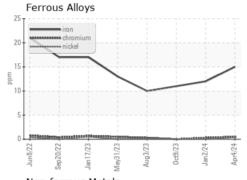


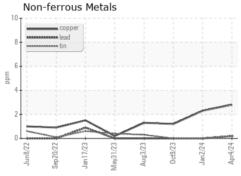


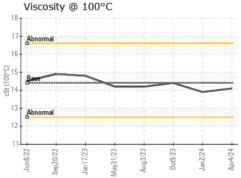


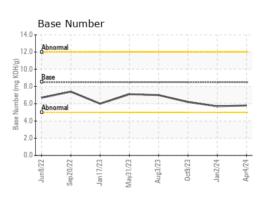
FLUID PROPERTIES		method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	13.9	14.4

GRAPHS













Certificate 12367

Sample No.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HRE0000119 Lab Number : 06148468

Unique Number : 10978546

Tested

Received : 15 Apr 2024 : 16 Apr 2024

Diagnosed : 16 Apr 2024 - Wes Davis

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.

* - 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)