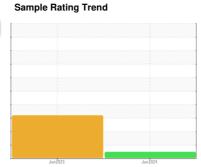


OIL ANALYSIS REPORT







M1 Component Diesel Engine

Machine Id

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

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

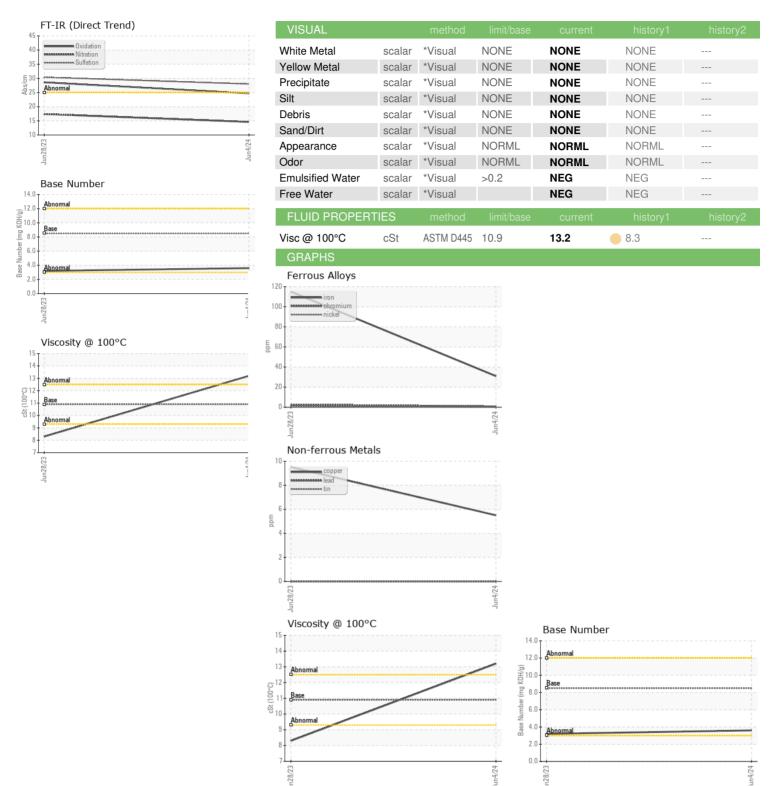
Fluid Condition

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

			Jun 2023	Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887543	WC0827058	
Sample Date		Client Info		04 Jun 2024	28 Jun 2023	
Machine Age	mls	Client Info		0	82260	
Oil Age	mls	Client Info		0	6000	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<u>^</u> 2.8	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	<u> </u>	
Chromium	ppm	ASTM D5185m	>20	<1	3	
Nickel	ppm	ASTM D5185m	>4	0	1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	11	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	6	10	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	13	29	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	73	46	
Manganese	ppm	ASTM D5185m		4	1	
Magnesium	ppm	ASTM D5185m	450	332	554	
Calcium	ppm	ASTM D5185m	3000	2011	1199	
Phosphorus	ppm	ASTM D5185m	1150	984	661	
Zinc	ppm	ASTM D5185m	1350	1133	804	
Sulfur	ppm	ASTM D5185m	4250	4260	3218	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	19	
Sodium	ppm	ASTM D5185m	00	3	7	
Potassium	ppm	ASTM D5185m	>20	<1	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	14.6	17.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.0	30.4	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.7	28.6	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.6	▲ 3.2	



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: WC0887543 Lab Number : 06213240 Unique Number : 11086104 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** : 19 Jun 2024

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed : 20 Jun 2024 - Don Baldridge

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.

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

TOWN OF CHAPEL HILL

6900 MILLHOUSE RD

CHAPEL HILL, NC

Report Id: TOWCHANC [WUSCAR] 06213240 (Generated: 06/21/2024 18:29:35) Rev: 1

Contact/Location: Lisa DePasqua - TOWCHANC