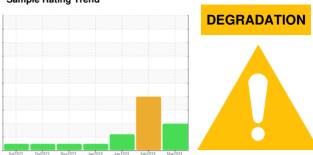


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 1704 Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

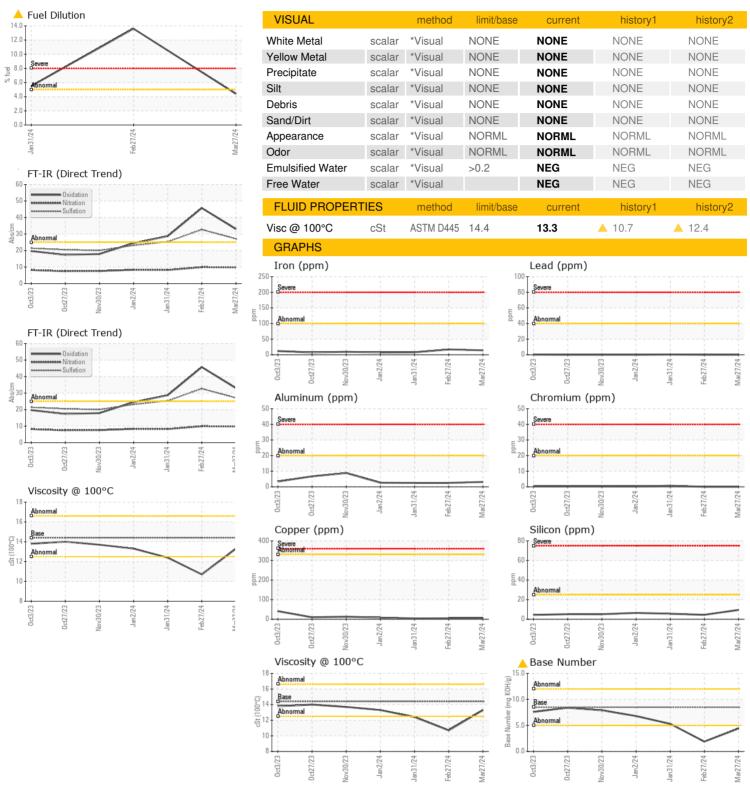
Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

		Oct2023	Oct2023 Nov2023	Jan2024 Jan2024 Feb2024	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894020	WC0893974	WC0894049
Sample Date		Client Info		27 Mar 2024	27 Feb 2024	31 Jan 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
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	14	17	8
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	7	5	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	0	<1
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	52	52	51
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	839	860	832
Calcium	ppm	ASTM D5185m	3000	1001	912	951
Phosphorus	ppm	ASTM D5185m	1150	913	873	1009
Zinc	ppm	ASTM D5185m	1350	1136	1101	1099
Sulfur	ppm	ASTM D5185m	4250	3154	2563	3076
CONTAMINANTS	i e	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	4	6
Sodium	ppm	ASTM D5185m	>158	3	2	2
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Fuel	%	ASTM D3524	>5	4.4	▲ 13.6	△ 5.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415		27.1	▲ 32.7	25.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.0	45.7	28.7
Base Number (BN)	mg KOH/g	ASTM D2896		△ 4.4	<u>4</u> 3.7	5.3
Dasc Number (DIN)	my Kony	AOTIVI DZ030	0.0	7.7	1.0	0.0



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0894020 Lab Number : 06137113

Unique Number: 10956578

Received : 03 Apr 2024 **Tested** : 05 Apr 2024 Diagnosed

: 05 Apr 2024 - Sean Felton Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

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.

GO DURHAM - RAPT

1903 FAYETTEVILLE ST DURHAM, NC US 27701

Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: Contact/Location: Robert Iosiniecki - GODDUR