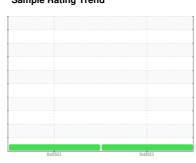


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 1706 Component Diesel Engine

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

DIAGNOSIS

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

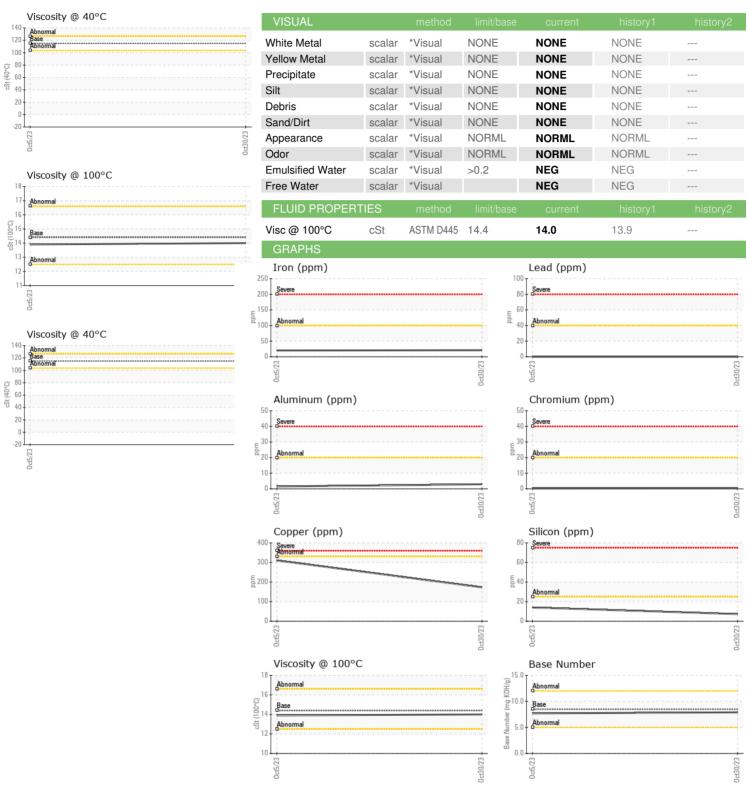
Fluid Condition

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

CAMPLE INFORM	AATION		0ct2023	0ct2023	la faction and	h:-10
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0855918	WC0855868	
Sample Date		Client Info		30 Oct 2023	05 Oct 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	21	20	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	3	2	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m		173	310	
Tin	ppm	ASTM D5185m	>15	<1	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	4	<1	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	60	57	
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m	450	935	956	
Calcium	ppm	ASTM D5185m	3000	1115	1073	
Phosphorus	ppm	ASTM D5185m	1150	1003	971	
Zinc	ppm	ASTM D5185m	1350	1292	1253	
Sulfur	ppm	ASTM D5185m	4250	2733	2894	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		7	14	
Sodium	ppm	ASTM D5185m		3	5	
Potassium	ppm	ASTM D5185m	>20	<1	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.7	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	18.7	
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	7.7	
	0					



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number **Unique Number**

: WC0855918 : 06010637 : 10749781

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Nov 2023 Diagnosed : 21 Nov 2023 Diagnostician : Jonathan Hester

Test Package : MOB 1 (Additional Tests: KV40, 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GO DURHAM - RAPT 1903 FAYETTEVILLE ST DURHAM, NC

US 27701 Contact: Robert Iosiniecki

Robert.losiniecki@ratpdev.com

T: F: