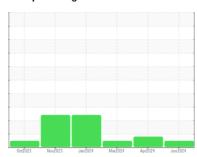


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 1710 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.

		Oct2023	Nov2023 Jan2024	Mar2024 Apr2024	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897815	WC0897866	WC0894051
Sample Date		Client Info		09 Jun 2024	25 Apr 2024	30 Mar 2024
Machine Age	mls	Client Info		0	447255	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	MARGINAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<u>^</u> 2.2	<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	20	16	7
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	179	208	14
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	11	44
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	100	52	48	44
Manganese	ppm	ASTM D5185m		<1	2	7
Magnesium	ppm	ASTM D5185m	450	873	797	740
Calcium	ppm	ASTM D5185m		1072	965	1085
Phosphorus	ppm	ASTM D5185m	1150	940	836	705
Zinc	ppm	ASTM D5185m	1350	1191	1027	828
Sulfur	ppm	ASTM D5185m	4250	3059	2946	2629
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		11	17	22
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m		2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.1
Nitration	Abs/cm	*ASTM D7624		8.7	7.6	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	22.3	21.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.8	23.7	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.7	4.1	8.5



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number : 06219132

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897815

Received **Tested** Unique Number: 11097329

Diagnosed : 26 Jun 2024 - Jonathan Hester

: 24 Jun 2024

: 25 Jun 2024

Test Package : MOB 1 (Additional Tests: 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