

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id 1202

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

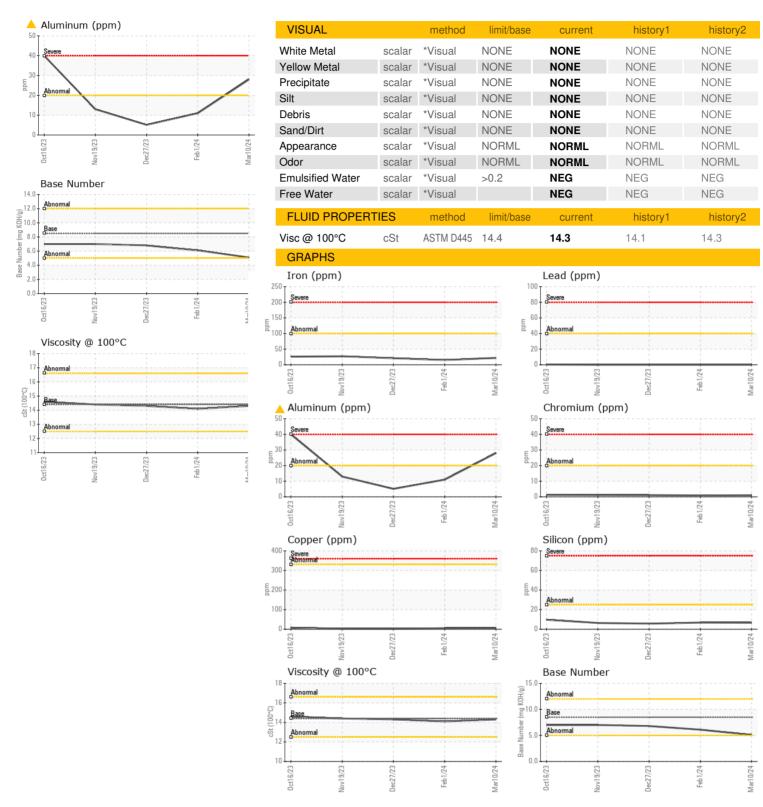
Fluid Condition

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

		0ct2023	Nov2023	Dec2023 Feb2024	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894055	WC0893992	WC0868053
Sample Date		Client Info		10 Mar 2024	01 Feb 2024	27 Dec 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	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	22	15	21
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<u>^</u> 28	11	5
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	7	5	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	0	<1
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	63	57	60
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	936	1041	1049
Calcium	ppm	ASTM D5185m	3000	1154	1094	1140
Phosphorus	ppm	ASTM D5185m	1150	997	1034	1075
Zinc	ppm	ASTM D5185m	1350	1212	1300	1352
Sulfur	ppm	ASTM D5185m	4250	3023	2924	3033
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	7	6
Sodium	ppm	ASTM D5185m	>158	7	13	5
Potassium	ppm	ASTM D5185m	>20	4	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.8	10.2	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3	22.9	22.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.9	23.2	22.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	6.1	6.8
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Laboratory Sample No. Lab Number

: WC0894055 : 06124579 Unique Number: 10938730

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 **Tested** : 21 Mar 2024 Diagnosed

: 23 Mar 2024 - Don Baldridge

1903 FAYETTEVILLE ST DURHAM, NC US 27701 Contact: Robert Iosiniecki

GO DURHAM - RAPT

Test Package: MOB 1 (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369. Robert.losiniecki@ratpdev.com T: * - 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)

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