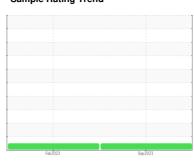


OIL ANALYSIS REPORT

Sample Rating Trend







2642 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

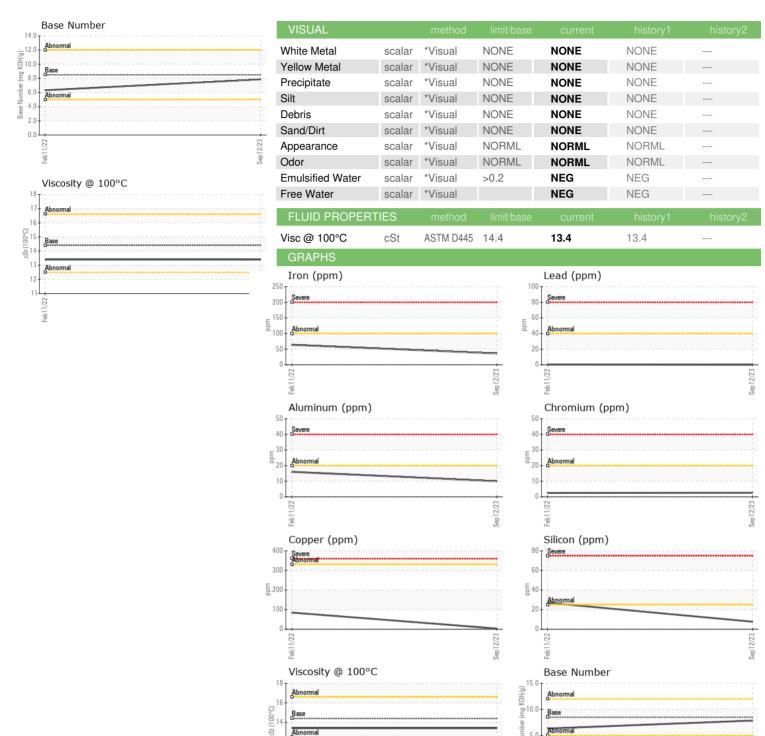
Fluid Condition

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

			Feb 2022	Sep2023		
SAMPLE INFORM	ΛΔΤΙΩΝ	method	limit/base		history1	history2
	ATION		IIIIIIIIIIII			
Sample Number		Client Info		RW0004854	RW0002449 11 Feb 2022	
Sample Date	hrs	Client Info		12 Sep 2023 2436	520	
Machine Age Oil Age	hrs	Client Info		766	520	
Oil Changed	1113	Client Info		Changed	Changed	
Sample Status		Oliotic IIIIo		NORMAL	NORMAL	
CONTAMINATION	VI.	mathad	limit/base			hiotory/2
	N	method			history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	36	64	
Chromium	ppm	ASTM D5185m	>20	3	2	
Nickel	ppm	ASTM D5185m	>4	<1	1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	10	16	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	3	85	
Tin	ppm	ASTM D5185m	>15	<1	1	
Antimony	ppm	ASTM D5185m			<1	
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	49	
Barium	ppm	ASTM D5185m	10	2	0	
Molybdenum	ppm	ASTM D5185m	100	64	7	
Manganese	ppm	ASTM D5185m		<1	4	
Magnesium	ppm	ASTM D5185m	450	913	770	
Calcium	ppm	ASTM D5185m	3000	1081	1392	
Phosphorus	ppm	ASTM D5185m	1150	965	740	
Zinc	ppm	ASTM D5185m	1350	1223	922	
Sulfur	ppm	ASTM D5185m	4250	3126	2459	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	27	
Sodium	ppm	ASTM D5185m	>158	1	6	
Potassium	ppm	ASTM D5185m	>20	26	30	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	11.3	12.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	24.8	
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	19.6	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.85	6.32	
= 3.00 · (2.14)	99		5.0		0.02	



OIL ANALYSIS REPORT







Certificate L2367

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

: 05963689 : 10670240 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Sep 2023 : RW0004854 : 29 Sep 2023 Diagnosed

: Wes Davis Diagnostician

0.0

Feb 1

Sep12/23

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) **NEWKIRK ELECTRIC**

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Contact: ERIC KING ewking@newkirk-electric.com

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