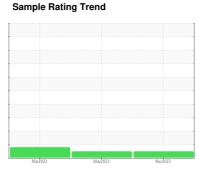


OIL ANALYSIS REPORT



NORMAL



Machine Id 2590 Component

Diesel Engine

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

Recommendation

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

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.

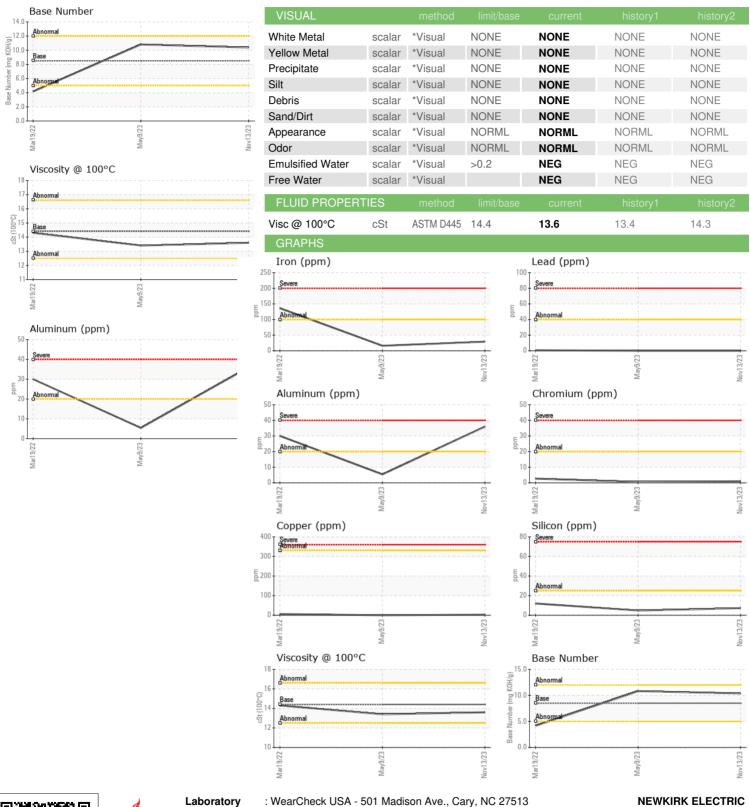
Fluid Condition

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

				May2023 Nov20		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004868	RW0004634	RW0003151
Sample Date		Client Info		13 Nov 2023	09 May 2023	19 Mar 2022
Machine Age	hrs	Client Info		4510	4035	2725
Oil Age	hrs	Client Info		250	350	1125
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	١	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	29	16	△ 136
Chromium	ppm	ASTM D5185m	>20	1	<1	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	36	5	30
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	0	6
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	3	9	26
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	57	65	4
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	450	892	1013	672
Calcium	ppm	ASTM D5185m	3000	1035	1178	1573
Phosphorus	ppm	ASTM D5185m	1150	1059	1128	1074
Zinc	ppm	ASTM D5185m	1350	1208	1388	1207
Sulfur	ppm	ASTM D5185m	4250	3001	4032	3278
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	12
Sodium	ppm	ASTM D5185m	>158	3	<1	4
Potassium	ppm	ASTM D5185m	>20	94	6	68
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	2.1
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.6	15.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.8	33.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.1	26.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.28	10.81	4.16
	09					-



OIL ANALYSIS REPORT







Certificate L2367

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

: 06016653 : 10755797 Test Package : MOB 2

: RW0004868

: 24 Nov 2023 Received Diagnosed Diagnostician

: 28 Nov 2023 : Wes Davis

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)

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