

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



2314 Component

Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (--- QTS)

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

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.

			May2023	Nov2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836300	WC0814859	
Sample Date		Client Info		06 Nov 2023	14 May 2023	
Machine Age	mls	Client Info		102114	50917	
Oil Age	mls	Client Info		50000	50000	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	l	method	limit/base	current	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	86	64	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	26	32	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	13	13	
Tin	ppm	ASTM D5185m	>15	2	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	13	16	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	36	26	
Manganese	ppm	ASTM D5185m		3	3	
Magnesium	ppm	ASTM D5185m	450	938	896	
Calcium	ppm	ASTM D5185m	3000	1175	1468	
Phosphorus	ppm	ASTM D5185m	1150	882	846	
Zinc	ppm	ASTM D5185m	1350	1119	1051	
Sulfur	ppm	ASTM D5185m	4250	3008	3681	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	15	
Sodium	ppm	ASTM D5185m		6	6	
Potassium	ppm	ASTM D5185m	>20	78	91	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	13.4	12.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.8	27.3	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
0 11 11		****	0=			

Oxidation

23.2

5.2

28.4

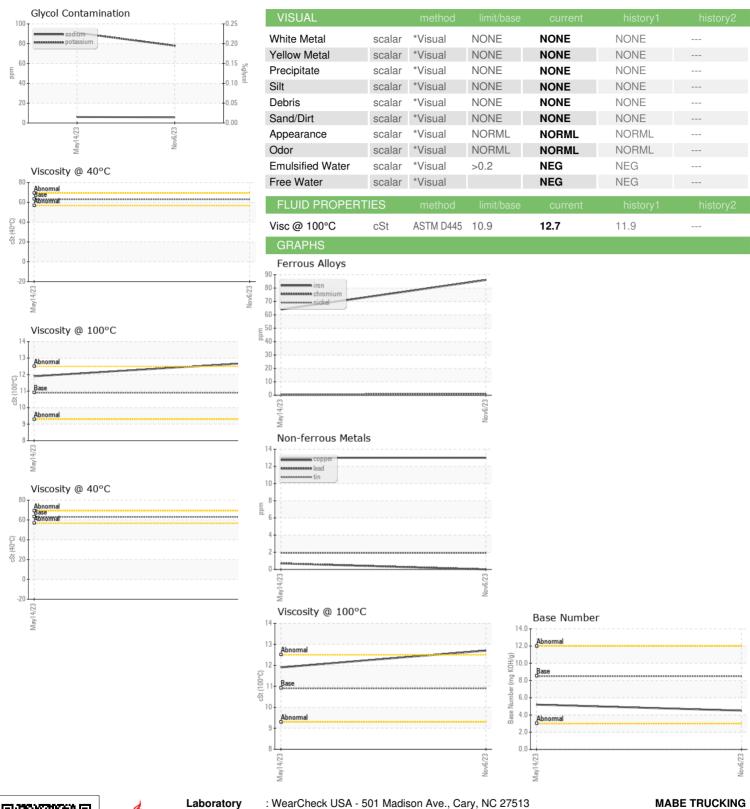
4.5

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.5



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Certificate L2367

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

: WC0836300

: 06008833

: 10742595

Received : 15 Nov 2023 Diagnosed Diagnostician

: 16 Nov 2023 : Sean Felton

Test Package : FLEET (Additional Tests: KV40)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: MAINTENANCE maintenancemanager@mabetrucking.com T:

Contact/Location: MAINTENANCE ? - MABEDE

* - 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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