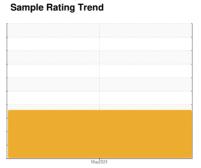


OIL ANALYSIS REPORT





Machine Id 2422

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

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

Wear

Cylinder, crank, or cam shaft wear is indicated.

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. Elemental level of silicon (Si) above normal indicating ingress of seal material.

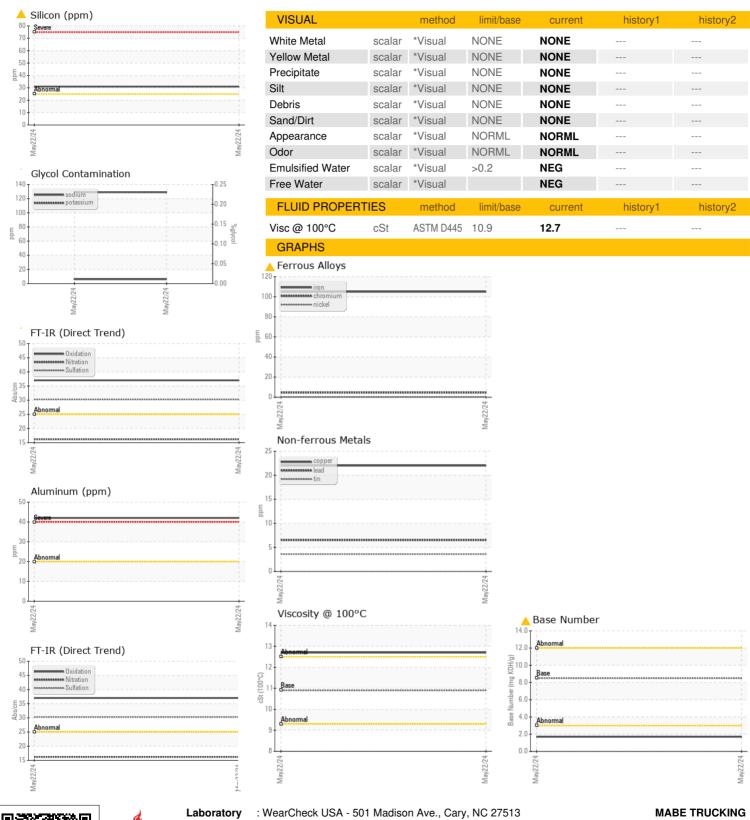
Fluid Condition

The BN level is low.

			I	May2024	<u>, </u>	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
			minu bacc	HRE0000192		motory
Sample Number Sample Date		Client Info		22 May 2024		
Machine Age	mls	Client Info		111737		
Oil Age	mls	Client Info		50000		
Oil Changed	11115	Client Info		Changed		
Sample Status		Ciletit iiiio		ABNORMAL		
				-		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<u> </u>		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	42		
Lead	ppm	ASTM D5185m	>40	6		
Copper	ppm	ASTM D5185m	>330	22		
Tin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	17		
Barium	ppm	ASTM D5185m	10	4		
Molybdenum	ppm	ASTM D5185m	100	63		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m	450	532		
Calcium	ppm	ASTM D5185m	3000	1686		
Phosphorus	ppm	ASTM D5185m	1150	974		
Zinc	ppm	ASTM D5185m	1350	1232		
Sulfur	ppm	ASTM D5185m	4250	2732		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 31		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	129		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8		
Nitration	Abs/cm	*ASTM D7624	>20	16.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
						,
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.0		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<u>1.7</u>		



OIL ANALYSIS REPORT





Certificate 12367

Sample No.

Lab Number : 06198784 Unique Number : 11060907

: HRE0000192 Test Package : FLEET

Received : 04 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed : 06 Jun 2024 - Sean Felton

US 27289 Contact: MAINTENANCE maintenancemanager@mabetrucking.com

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) F: (336)635-1791 Contact/Location: MAINTENANCE ? - MABEDE

PO BOX 1081

EDEN, NC

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