WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

2348

Component Diesel Engine

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

DIESEL ENGINE OIL SAE 5W30 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		HRE0000225		
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.	Sample Date		Client Info		22 May 2024		
	Machine Age	mls	Client Info		111256		
	Oil Age	mls	Client Info		50000		
	Filter Age	mls	Client Info		50000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		0.1011111110		NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	87		
	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	1		
	Aluminum	ppm	ASTM D5185m		30		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		15		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	710	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>			Visuai	NONL	·····		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	23		
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.	Potassium	ppm	ASTM D5185m	>20	91		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	13.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	10		
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m	100	28		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m	450	1059		
	Calcium	ppm	ASTM D5185m	3000	1459		
	Phosphorus	ppm	ASTM D5185m	1150	1021		
	Zinc	ppm	ASTM D5185m	1350	1248		
	Sulfur	ppm	ASTM D5185m	4250	3938		
	Oxidation	Abs/.1mm	*ASTM D7414		30.4		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.5		
	Visc @ 100°C	cSt	ASTM D445		12.4		
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Certificate L2367

Laboratory Sample No.

Lab Number : 06193242 Unique Number : 11049994 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HRE0000225

Received **Tested** Diagnosed

: 28 May 2024 : 30 May 2024

: 30 May 2024 - Sean Felton

**MABE TRUCKING** PO BOX 1081 EDEN, NC

F: (336)635-1791

US 27289 Contact: MAINTENANCE

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

maintenancemanager@mabetrucking.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)