WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

Machine Id 2207 Component

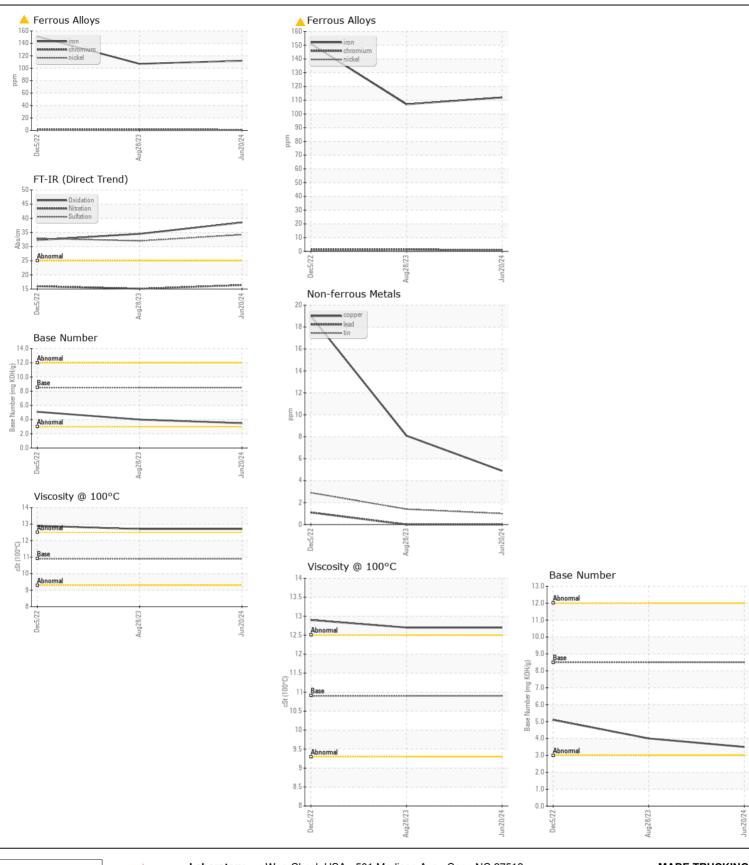
Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 5W30 (QTS)							
RECOMMENDATION Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		HRE0000666	WC0836271	WC0686118
	Sample Date		Client Info		20 Jun 2024	28 Aug 2023	05 Dec 2022
	Machine Age	mls	Client Info		338055	223794	107081
	Oil Age	mls	Client Info		50000	50000	100000
	Filter Age	mls	Client Info		50000	50000	50000
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<u> </u>	<u> </u>	<u> </u>
	Chromium	ppm	ASTM D5185m	>20	<1	1	1
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	16	29	120
	Lead	ppm	ASTM D5185m	>40	0	0	1
	Copper	ppm	ASTM D5185m	>330	5	8	19
	Tin	ppm	ASTM D5185m	>15	1	1	3
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ACTM DE10E	05	00	04	0.4
CONTAMINATION	Silicon	ppm	ASTM D5185m		22 21	21 62	24 313
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method		<1.0	<1.0	<1.0
	Water		WC Method		< 1.0 NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	1.2	1	0.8
	Nitration	Abs/cm		>20	16.4	15.1	16.0
	Sulfation	Abs/.1mm	*ASTM D7415		34.2	32.0	32.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	7	10
TEOID CONDITION	Boron	ppm	ASTM D5185m	250	11	11	19
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		70	66	27
	Manganese	ppm	ASTM D5185m		2	2	3
	Magnesium	ppm	ASTM D5185m	450	1233	1205	903
	Calcium	ppm	ASTM D5185m		972	996	1279
	Phosphorus	ppm	ASTM D5185m	1150	1197	1147	905
	Zinc	ppm	ASTM D5185m	1350	1472	1430	1050
	Sulfur	ppm	ASTM D5185m	4250	3641	3737	3710
	Oxidation	Abs/.1mm	*ASTM D7414		38.5	34.5	32.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.5	4.0	5.1
	V: @ 10000	- 01	A OTMA DAAR	400	40-	40.7	400

12.7

12.7

ASTM D445 10.9

Visc @ 100°C cSt







Certificate L2367

Report Id: MABEDE [WUSCAR] 06227237 (Generated: 07/09/2024 15:29:38) Rev: 1

Laboratory Sample No.

: HRE0000666 Lab Number : 06227237 Unique Number : 11110730

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package : FLEET

: 03 Jul 2024 : 06 Jul 2024 : 06 Jul 2024 - Don Baldridge

MABE TRUCKING PO BOX 1081 EDEN, NC US 27289

F: (336)635-1791

Contact: MAINTENANCE

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. maintenancemanager@mabetrucking.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MAINTENANCE ? - MABEDE