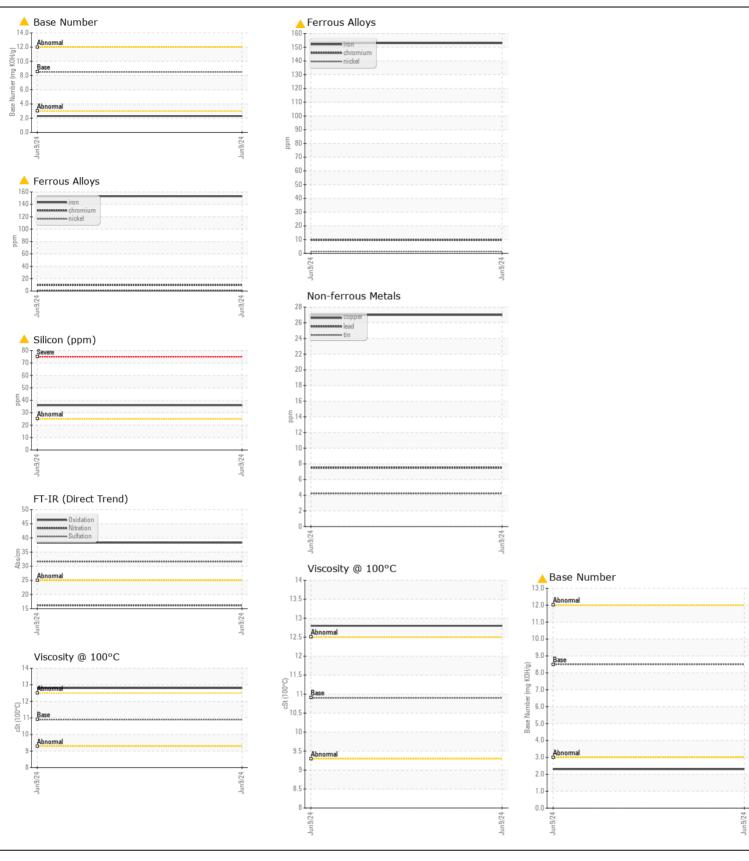
WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL ABNORMAL ABNORMAL

Machine Id

2424 Component

Diesel Engine							
DIESEL ENGINE OIL SAE 5W30 (GAL)							
	T		M - 411	Line is / A leas		T Bakana M	L II - t 0
PECOMMENDATION 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 Sample Number	UOM	Method	Limit/Abn	Current HRE0000661	History1	History2
	Sample Number		Client Info		09 Jun 2024		
	Machine Age	mls	Client Info		105387		
	Oil Age	mls	Client Info		50000		
	Filter Age	mls	Client Info		50000		
	Oil Changed	11113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Onone into		ABNORMAL		
WEAR							
WEAR	Iron	ppm	ASTM D5185m		<u> </u>		
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m		10		
	Nickel	ppm	ASTM D5185m	>4	1		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		85		
	Lead	ppm	ASTM D5185m		8		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		27 4		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
·····			Visuai				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4 36		
Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (AI) 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.	Potassium	ppm	ASTM D5185m	>20	232		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	16.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	31.6		
	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		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6		
	Boron	ppm	ASTM D5185m	250	23		
The BN level is low.	Barium	ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m	100	67		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m	450	616		
	Calcium	ppm	ASTM D5185m		1694		
	Phosphorus	ppm	ASTM D5185m	1150	1050		
	Zinc	ppm	ASTM D5185m	1350	1376		
	Sulfur	ppm	ASTM D5185m	4250	3076		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	38.3		
	Base Number (BN)				<u> </u>		
	Visc @ 100°C	cSt	ASTM D445	10.9	12.8		







Certificate L2367

Laboratory Sample No.

Lab Number : 06217554 Unique Number : 11090418

: HRE0000661 Test Package : FLEET

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

: 21 Jun 2024 Diagnosed

: 25 Jun 2024

: 25 Jun 2024 - Sean Felton

MABE TRUCKING PO BOX 1081 EDEN, NC

US 27289 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

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

Contact/Location: MAINTENANCE ? - MABEDE

F: (336)635-1791