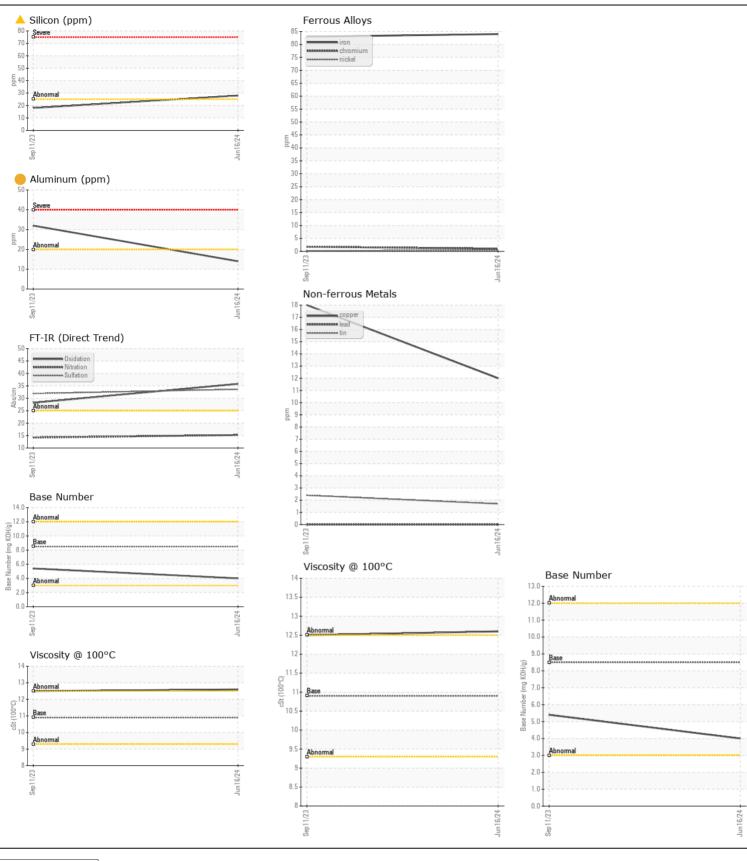
**WEAR** CONTAMINATION **FLUID CONDITION** 

**ATTENTION ABNORMAL NORMAL** 

Machine Id 2320

## Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	O O IVI	Client Info	Little	HRE0000219	WC0836282	,
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		16 Jun 2024		
	Machine Age	mls	Client Info		210075	102473	
	Oil Age	mls	Client Info		50000	50000	
	Filter Age	mls	Client Info		50000	50000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
MEAD	luon		ACTM DE10Em	. 100	04	00	
WEAR	Iron	ppm	ASTM D5185m		84	83	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	2	
	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m	. 0	<1	<1 .1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		0 14 0	32 0	
		ppm	ASTM D5185m		12	18	
	Copper Tin	ppm	ASTM D5185m		2	2	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>	Tellow Metal	Scalai	Visuai	NONL	INOINE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	<b>28</b>	18	
	Potassium	ppm	ASTM D5185m	>20	29	85	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1	0	
	Nitration	Abs/cm	*ASTM D7624	>20	15.2	14.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	33.6	31.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		8	6	
FEOID CONDITION	Boron	ppm	ASTM D5185m	250	9	15	
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		ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		73	36	
	Manganese	ppm	ASTM D5185m	100	2	2	
	Magnesium	ppm	ASTM D5185m	450	1305	1008	
	Calcium	ppm	ASTM D5185m		1075	1307	
	Phosphorus	ppm	ASTM D5105m		1284	952	
	Zinc	ppm		1350	1548	1175	
	Sulfur	ppm	ASTM D5185m		4011	3774	
	Oxidation	Abs/.1mm	*ASTM D7414		35.8	28.2	
	Base Number (BN)				4.0	5.4	
	Visc @ 100°C	cSt	ASTM D445		12.6	12.5	





Certificate L2367

Report Id: MABEDE [WUSCAR] 06217561 (Generated: 06/25/2024 13:09:42) Rev: 1

Laboratory Sample No.

: HRE0000219 Lab Number : 06217561 Unique Number : 11090425

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

Test Package : FLEET

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

: 21 Jun 2024 : 25 Jun 2024 Diagnosed

: 25 Jun 2024 - Don Baldridge

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

US 27289 Contact: MAINTENANCE

maintenancemanager@mabetrucking.com

\* - 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

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