WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL

Machine Id

2311

Component
Diesel Engine

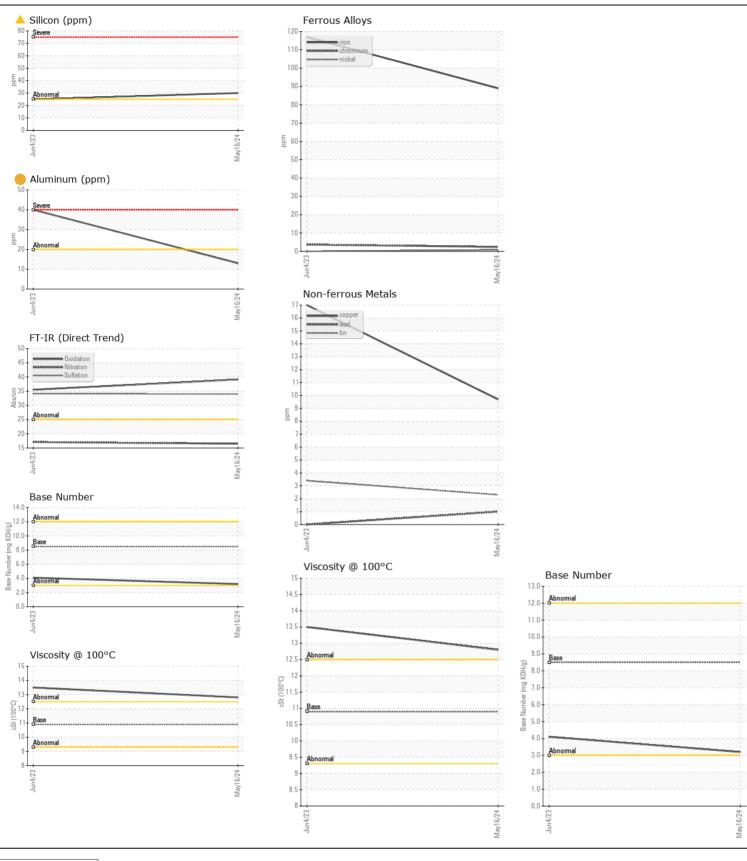
RECOMMENDATION !	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number	JOIVI	Client Info	LIIIII/AUII	HRE0000209	WC0814827	
	Sample Date		Client Info		16 May 2024	04 Jun 2023	
	Machine Age	mls	Client Info		238406	110606	
	Oil Age	mls	Client Info		50000	100000	
	Filter Age	mls	Client Info		50000	100000	
	Oil Changed	0	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL		
NEAR	Iron	ppm	ASTM D5185m		89	<u> </u>	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	4	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m	_	<1	<1	
	Silver	ppm	ASTM D5185m		1	0	
	Aluminum	ppm	ASTM D5185m		13	40	
	Lead	ppm	ASTM D5185m		1	0	
	Copper	ppm	ASTM D5185m		10	17	
	Tin	ppm	ASTM D5185m	>15	2	3	
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE	<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	▲ 30	25	
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		29	116	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.1	0.9	
	Nitration	Abs/cm	*ASTM D7624	>20	16.5	17.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	34.0	34.1	
	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		7	10	
LOID GONDITION	Boron	ppm	ASTM D5185m	250	8	11	
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	
	Molybdenum	ppm	ASTM D5185m		75	28	
	Manganese	ppm	ASTM D5185m	100	1	3	
	Magnesium	ppm	ASTM D5185m	450	1309	1050	
	Calcium	ppm	ASTM D5185m		1088	1506	
	Phosphorus	ppm	ASTM D5185m		1152	969	
	Zinc	ppm	ASTM D5185m	1350	1524	1186	
	Sulfur	ppm	ASTM D5185m		3522	3900	
	Oxidation	Abs/.1mm	*ASTM D7414		39.1	35.5	
	Base Number (BN)				3.2	4.1	

12.8

ASTM D445 10.9

Visc @ 100°C cSt

13.5





Certificate L2367

Report Id: MABEDE [WUSCAR] 06190006 (Generated: 05/29/2024 14:41:04) Rev: 1

Laboratory Sample No.

: HRE0000209 Lab Number : 06190006 Unique Number : 11046758 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 25 May 2024

Diagnosed : 29 May 2024 - Don Baldridge **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. * - 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