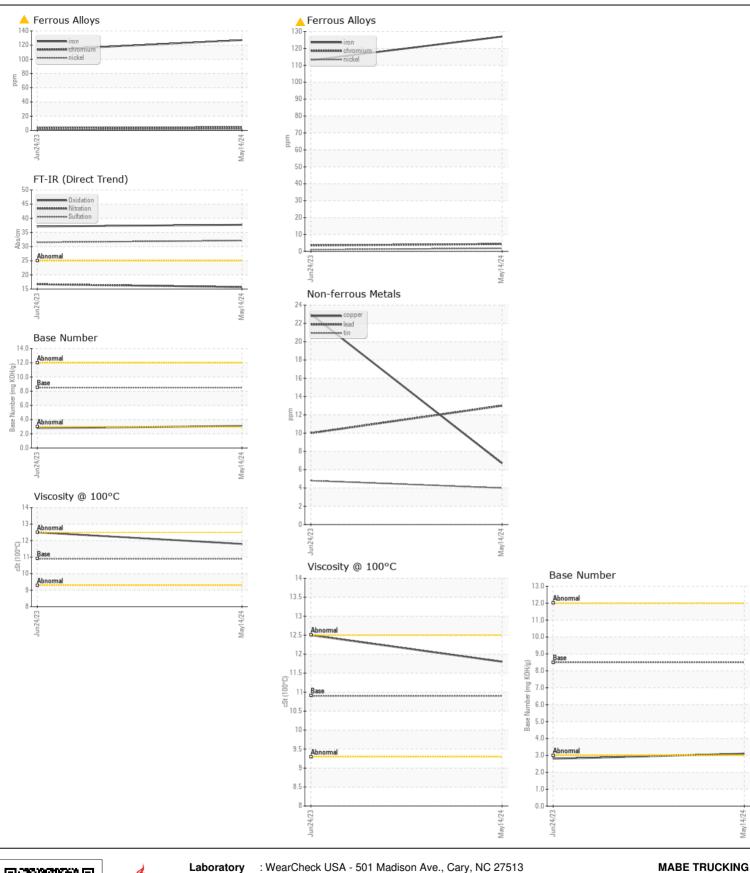
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**

Machine Id

PETERBILT 2403

Diesel Engine							
DIESEL ENGINE OIL SAE 5W30 (44 QTS)							
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		History1	History2
	Sample Number		Client Info		HRE0000207	WC0814857	
	Sample Date	la	Client Info		14 May 2024	24 Jun 2023	
	Machine Age	mls	Client Info		228849	102286	
	Oil Age	mls	Client Info		50000	50000	
	Filter Age	mls	Client Info		50000	50000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed Sample Status		Client Info		Changed	Changed ABNORMAL	
	Sample Status				ABNORMAL	ADINUNIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>100	127	<u> </u>	
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	4	4	
	Nickel	ppm	ASTM D5185m	>2	2	1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	1	<1	
	Aluminum	ppm	ASTM D5185m	>25	12	1 9	
	Lead	ppm	ASTM D5185m	>40	13	10	
	Copper	ppm	ASTM D5185m	>330	7	23	
	Tin	ppm	ASTM D5185m	>15	4	5	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon		ACTM DE10E	05	40	A 00	
CONTAMINATION There is no indication of any contamination in the oil.		ppm	ASTM D5185m		18 28	▲ 36 60	
	Potassium Fuel	ppm	ASTM D5185m WC Method		-	<1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	1.2	0.9	
	Nitration	Abs/cm	*ASTM D7624		15.7	16.7	
	Sulfation	Abs/.1mm	*ASTM D7024		32.1	31.5	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	5	
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.	Boron	ppm	ASTM D5185m	250	13	16	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m	100	78	66	
	Manganese	ppm	ASTM D5185m		2	6	
	Magnesium	ppm	ASTM D5185m		1123	533	
	Calcium	ppm	ASTM D5185m		1045	1683	
	Phosphorus	ppm	ASTM D5185m		1020	978	
	Zinc	ppm	ASTM D5185m		1386	1294	
	Sulfur	ppm	ASTM D5185m		3016	2844	
	Oxidation	Abs/.1mm	*ASTM D7414		37.7	37.1	
	Base Number (BN)		ASTM D2896		3.1	<u>^</u> 2.8	
	Visc @ 100°C	cSt	ASTM D445	10.9	11.8	12.5	







Certificate L2367

Report Id: MABEDE [WUSCAR] 06190004 (Generated: 05/29/2024 14:41:13) Rev: 1

Laboratory Sample No.

Lab Number : 06190004 Unique Number : 11046756

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : HRE0000207

Test Package : FLEET

Received : 23 May 2024 **Tested** Diagnosed

: 25 May 2024 : 29 May 2024 - Don Baldridge PO BOX 1081 EDEN, NC US 27289

Contact: MAINTENANCE maintenancemanager@mabetrucking.com

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.

T: F: (336)635-1791

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

Contact/Location: MAINTENANCE ? - MABEDE