

WEAR CONTAMINATION FLUID CONDITION

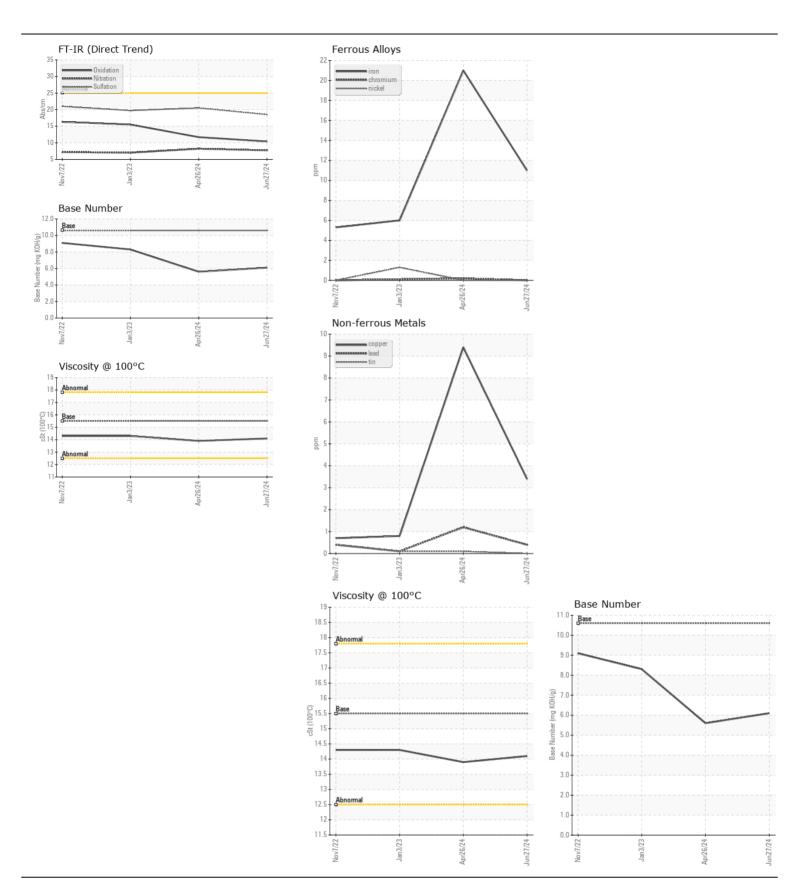
NORMAL NORMAL



Machine Id MACK GU713 DT30

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PE0004136	PE0003176	PE000040
	Sample Date		Client Info		27 Jun 2024	26 Apr 2024	03 Jan 202
	Machine Age	hrs	Client Info		17324	17013	0
	Oil Age	hrs	Client Info		311	489	320
	Filter Age	hrs	Client Info		311	489	320
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
A/E A D			ACTM DE10E	100	44	04	
WEAR	Iron	ppm	ASTM D5185m		11	21	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver Aluminum	ppm	ASTM D5185m		0	0	0
		ppm	ASTM D5185m		3	5	1
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 3	9	<1
	Copper Tin	ppm	ASTM D5185m			<1	<1
	Vanadium	ppm	ASTM D5185m	>10	0	<1	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	9	3
	Potassium	ppm	ASTM D5185m	>20	2	3	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.4	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.2	7.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.5	19.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	5	3
LOID CONDITION	Boron	ppm	ASTM D5185m	10	2	4	75
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		2	7	56
	Manganese	ppm	ASTM D5185m	10	- <1	<1	<1
	Magnesium	ppm	ASTM D5185m	10	22	55	363
	Calcium	ppm	ASTM D5185m		2598	2464	1714
	Phosphorus	ppm	ASTM D5185m		982	976	942
	Zinc	ppm	ASTM D5185m		1181	1304	1198
	Sulfur	ppm	ASTM D5185m		4384	4342	3523
	Oxidation	Abs/.1mm	*ASTM D7414		10.4	11.7	15.5
	Base Number (BN)				6.1	5.6	8.3







Certificate L2367

Laboratory Sample No.

Lab Number : 06231133 Unique Number : 11114626

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PE0004136

Received : 08 Jul 2024 **Tested** : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Don Baldridge

Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN) 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.

SCHERMER CONSTRUCTION

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

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