WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

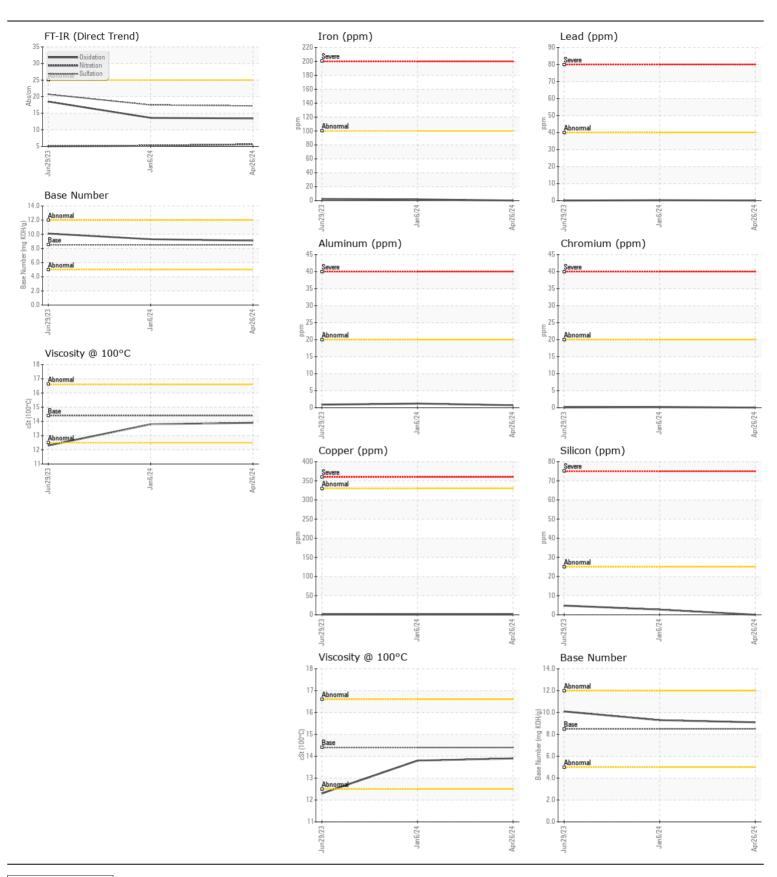
Machine Id

MACK 1209

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0917323	WC0878832	WC082234
Resample at the next service interval to monitor.	Sample Date		Client Info		26 Apr 2024	06 Jan 2024	29 Jun 202
	Machine Age	mls	Client Info		543784	543299	341626
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	0	2	2
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	1	<1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>\25</b>	0	3	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	1	1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	0.5
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		5.6	5.2	5.0
	Sulfation	Abs/.1mm	*ASTM D7415		17.2	17.5	20.7
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION	Codium		ACTM DE10Em	. 150	4		.4
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	8	73
	Barium	ppm	ASTM D5185m		0 57	0	0
	Monganasa	ppm	ASTM D5185m	100	57	53	52
	Manganese	ppm	ASTM D5185m	150	0 981	<1 947	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		981 1095	1043	461 1490
	Phosphorus	ppm				1043	
	•	ppm	ASTM D5185m		1074		709
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1262	1162 3051	832 2394
	Oxidation	ppm Abe/1mm			3743		
		Abs/.1mm	*ASTM D7414		13.4	13.6	18.5
	Base Number (BN)	ma (OII)	ASTM D2896	0 5	9.1	9.3	10.1





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0917323 Lab Number : 06197257

Unique Number : 11059380 Test Package : MOB 1 ( Additional Tests: TBN )

Received **Tested** Diagnosed

: 03 Jun 2024 : 03 Jun 2024 - Wes Davis

: 03 Jun 2024

**CONCRETE SERVICE CO - FAY BLOCK** 161 BUILDERS BLVD FAYETTEVILLE, NC US 28301

Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com T: (800)326-9198

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.

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