

WEAR CONTAMINATION FLUID CONDITION

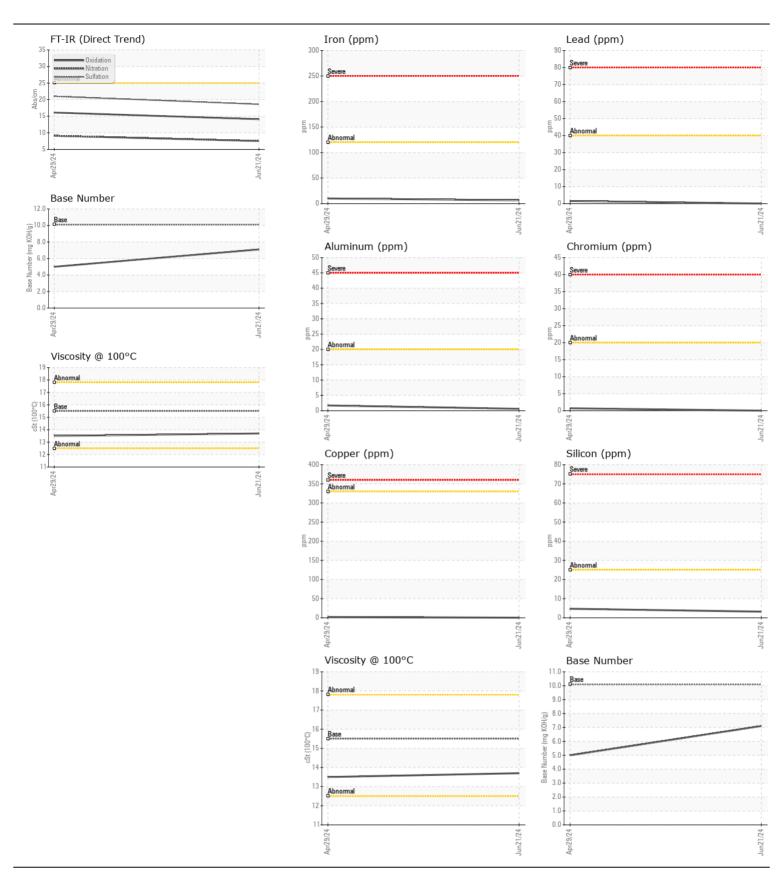
NORMAL NORMAL



Machine Id
MACK FL-39
Component
Diesel Engine

GIBRALTAR 15W/40 SUPER S-3 LX (--- GAL)

DECOMMENDATION				11 11/41			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0941097	WC0875562	
	Sample Date		Client Info		21 Jun 2024		
	Machine Age	hrs	Client Info		12118	11728	
	Oil Age	hrs	Client Info		600	600	
	Filter Age	hrs	Client Info		600	600	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>120	6	10	
	Chromium	ppm	ASTM D5185m	>20	0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	1	
	Titanium	ppm	ASTM D5185m	>2	0	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>20	<1	2	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m	>330	<1	2	
	Tin	ppm	ASTM D5185m	>15	0	1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTANUNATION			40TH DE (05			_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	4	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	4	NEG	NEG	
	Soot %	%	*ASTM D7844		0.3	0.3	
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.5 18.6	9.1 21.0	
	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		3	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		7	3	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	66	64	75	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		856	746	
	Calcium	ppm	ASTM D5185m		1308	1092	
	Phosphorus	ppm	ASTM D5185m		1039	821	
	Zinc	ppm	ASTM D5185m	1270	1305	1108	
	Sulfur	ppm	ASTM D5185m		3824	2934	
	Oxidation	Abs/.1mm	*ASTM D7414		14.1	16.1	
	Base Number (BN)	ma KOH/a	ASTM D2896	10.1	7.1	5.0	
	Visc @ 100°C	cSt	ASTM D445		13.7	13.5	







Laboratory Sample No.

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

Lab Number : 06224423 Unique Number : 11102620

: WC0941097

Received **Tested** Test Package : MOB 1 (Additional Tests: TBN)

: 01 Jul 2024 : 02 Jul 2024 Diagnosed

: 02 Jul 2024 - Jonathan Hester

OAKRIDGE WASTE 307 WHITE ST DANBURY, CT US 06810 Contact: CHRIS CONTI

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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)

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