

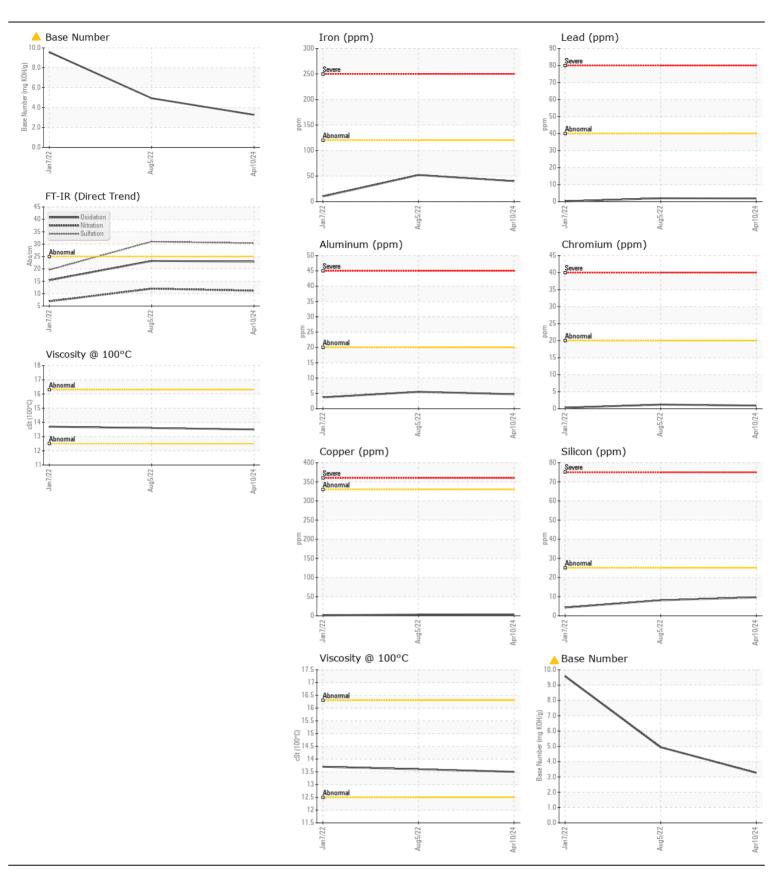
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ABNORMAL



Machine Id MACK GR643 190 (S/N 210605622) Component Diesel Engine Fluid__

UNITED OIL DURALENE (G	<u> </u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.	Sample Number		Client Info		DC0027603	DC0016267	DC0013557
	Sample Date		Client Info		10 Apr 2024	05 Aug 2022	07 Jan 2022
	Machine Age	hrs	Client Info		7075	4179	2705
	Oil Age	hrs	Client Info		0	2705	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>120	40	52	10
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	5	6	4
	Lead	ppm	ASTM D5185m	>40	2	2	<1
	Copper	ppm	ASTM D5185m	>330	3	3	1
	Tin	ppm	ASTM D5185m	>15	1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	8	4
	Potassium	ppm	ASTM D5185m	>20	11	10	4
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	0.8	0.7	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	11.2	12.0	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.4	31.0	19.6
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	8	0
	Boron	ppm	ASTM D5185m		0	52	13
The BN level is low. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	34	58
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		48	214	881
	Calcium	ppm	ASTM D5185m		2289	2210	1088
	Phosphorus	ppm	ASTM D5185m		888	891	996
	Zinc	ppm	ASTM D5185m		1146	1205	1170
	Sulfur	ppm	ASTM D5185m		3934	3462	2718
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	23.2	15.4
	Base Number (BN)	mg KOH/g	ASTM D2896		△ 3.27	4.94	9.58
	Visc @ 100°C	cSt	ASTM D445		13.5	13.6	13.7







Certificate L2367

Laboratory Sample No.

: DC0027603 Lab Number : 06152187 Unique Number: 10982265 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

: 22 Apr 2024 - Don Baldridge Diagnosed

BLANCHET CONCRETE PUMPING

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* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)708-1159 F: (301)206-4470 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)