WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

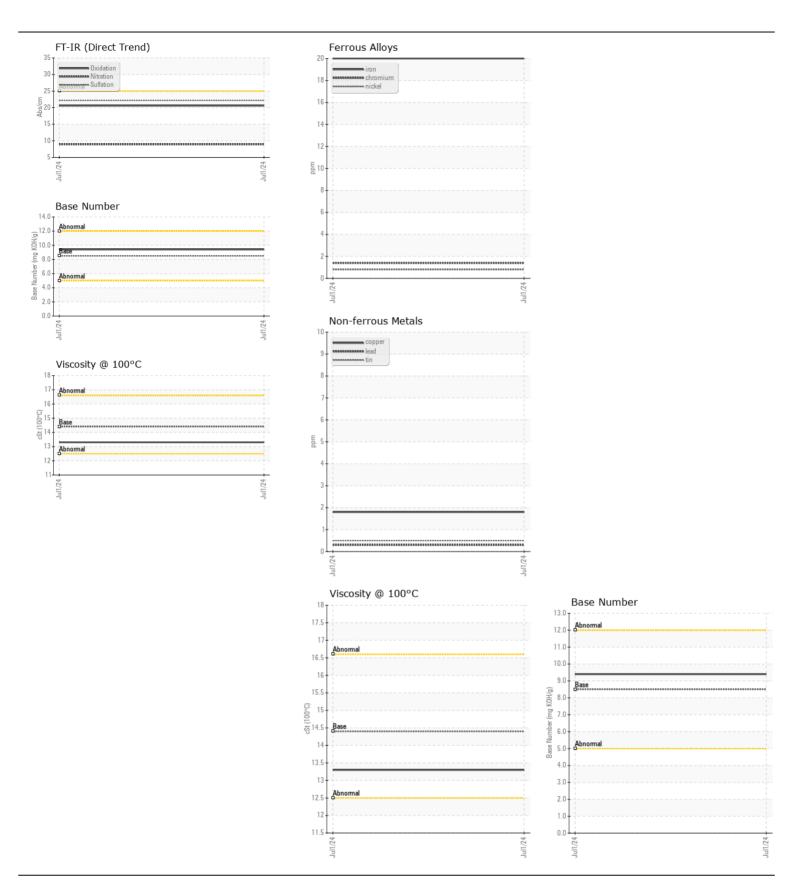
Machine Id

## FREIGHTLINER M2 Freightliner service truck (S/N DFL8838)

1 Diesel Engine

DIESEL ENGINE OIL SAE 40 (4 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ML0001386		
	Sample Date		Client Info		01 Jul 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>90	20		
	Chromium	ppm	ASTM D5185m		1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		10		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	% Ala a /ava	*ASTM D7844		0.4		
	Nitration	Abs/tmm	*ASTM D7624	>20	8.9		
	Sulfation Silt	Abs/.1mm	*ASTM D7415		22.2 NONE		
	Debris	scalar scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		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	38		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	55		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		789		
	Calcium	ppm	ASTM D5185m	3000	1899		
	Phosphorus	ppm	ASTM D5185m		1125		
	Zinc	ppm	ASTM D5185m		1390		
	Sulfur	ppm	ASTM D5185m		3509		
	Oxidation	Abs/.1mm	*ASTM D7414		20.6		
	Base Number (BN)				9.4		
	Visc @ 100°C	cSt	ASTM D445	14.4	13.3		







Certificate L2367

Laboratory

Sample No.

: ML0001386 Lab Number : 06229758

Unique Number : 11113251

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

: 08 Jul 2024 : 09 Jul 2024 Diagnosed : 09 Jul 2024 - Sean Felton

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND

1345 MOUNTAIN ROAD GLEN ALLEN, VA US 23060

Contact: KYLE RATLIFFE KRATLIFFE@MCCLUNG-LOGAN.COM

Test Package : CONST (Additional Tests: 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.

F: (804)266-1611 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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