

Compon

Machine Id **FREIGHTLINER 5009 Rear Differential**

TRC 790 SURE UNIV GENERIC (12 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06230338	TR05258711	
	Sample Date		Client Info		27 Jun 2024	18 May 2021	
	Machine Age	hrs	Client Info		21087	18387	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>500	117	141	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	1	
	Nickel	ppm	ASTM D5185m	>10	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m	>25	4	3	
	Lead	ppm	ASTM D5185m	>25	<1	<1	
	Copper	ppm	ASTM D5185m	>100	2	2	
	Tin	ppm	ASTM D5185m	>10	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	VLITE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	0''''				0 4	40	
CONTAMINATION	Silicon	ppm	ASTM D5185m		21	18	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	1	
	Water Silt	analar	WC Method		NEG NONE	NEG	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE	NONE	
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
			visual	<i>>.L</i>		NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	4	
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		280	261	
suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		1	1	
	Manganese	ppm	ASTM D5185m		2	2	
	Magnesium	ppm	ASTM D5185m		2	2	
	Calcium	ppm	ASTM D5185m		9	13	
	Phosphorus	ppm	ASTM D5185m		990	966	
	Zinc	ppm	ASTM D5185m		9	0	
	Sulfur	ppm	ASTM D5185m		20879	19693	
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.63	1.403	
	Visc @ 40°C	cSt	ASTM D445		144		
	1/1 0 10000	<u> </u>				110	

Visc @ 100°C cSt

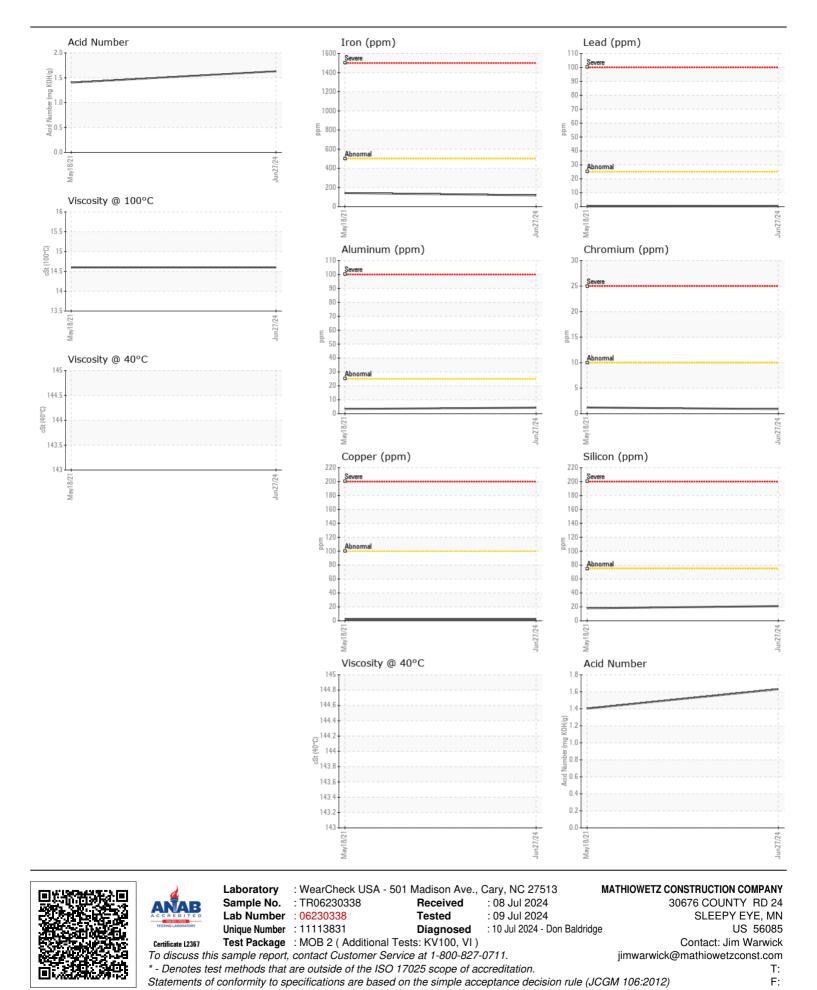
Viscosity Index (VI) Scale ASTM D2270

ASTM D445

14.6

14.6

99



Report Id: MATSLE [WUSCAR] 06230338 (Generated: 07/10/2024 10:03:40) Rev: 1

Contact/Location: Jim Warwick - MATSLE Page 2 of 2