

**OIL ANALYSIS REPORT** 

## Machine Id **CASE IH 500 QUAD 2013** Diesel Engine TRC 15W40 (9 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05750309	TR05408831	
	Sample Date		Client Info		01 Jan 2023	23 Nov 2021	
	Machine Age	hrs	Client Info		8575	7600	
	Oil Age	hrs	Client Info		500	375	
	Filter Age	hrs	Client Info		500	375	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	20	11	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		<1	1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	2	
	Lead	ppm	ASTM D5185m	>40	2	6	
	Copper	ppm	ASTM D5185m	>330	83	8	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	11.9	10.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	21	
	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	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	
	Boron	ppm	ASTM D5185m		4	58	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		128	90	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		26	57	
	Calcium	ppm	ASTM D5185m		4254	2859	
	Phosphorus	ppm	ASTM D5185m		891	1127	
	Zinc	ppm	ASTM D5185m		1114	1248	
	Sulfur	ppm	ASTM D5185m		3968	5732	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	17	
	Dese Nieseker (DNI)				44.07	0.40	

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

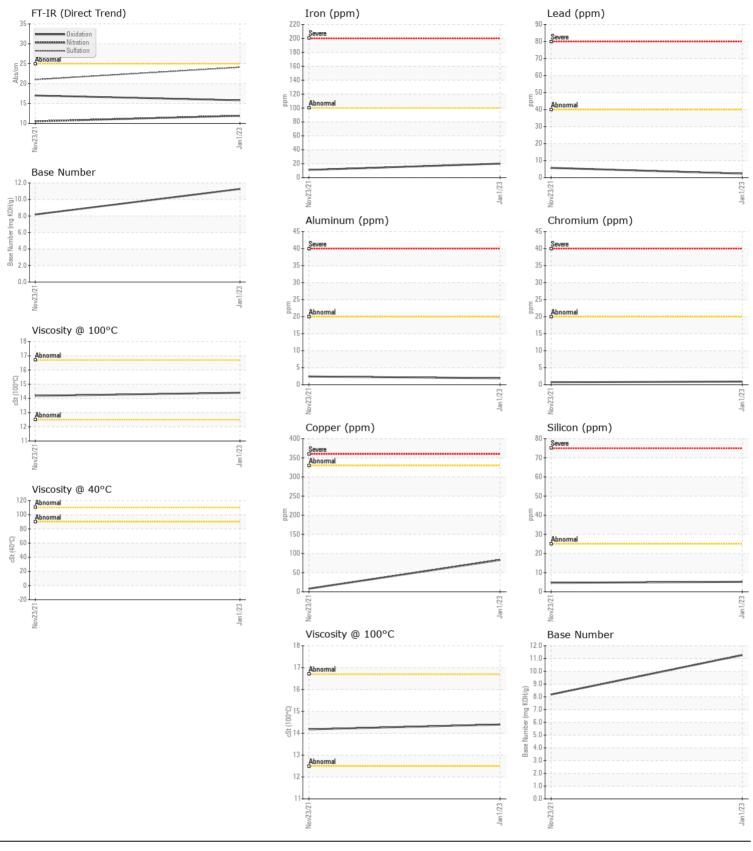
Visc @ 100°C cSt

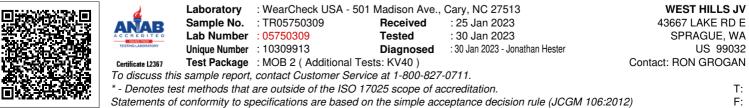
8.18

14.18

11.27

14.4





Contact/Location: RON GROGAN - WESSPRTR Page 2 of 2