

**OIL ANALYSIS REPORT** 

## Machine Id CASE IH 9120 COMBINE 9120 Component Diesel Engine Fluid

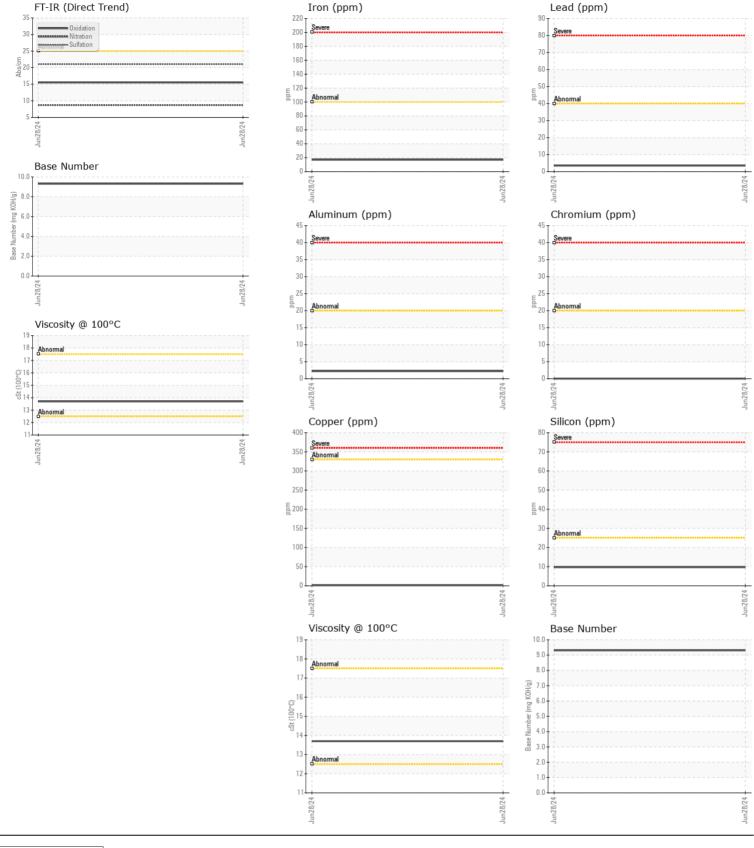
TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

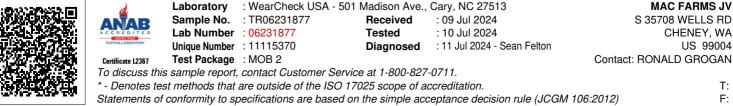
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06231877		
	Sample Date		Client Info		28 Jun 2024		
	Machine Age	hrs	Client Info		3417		
	Oil Age	hrs	Client Info		100		
	Filter Age	hrs	Client Info		100		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		17		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m	>330	2		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10		
	Potassium	ppm	ASTM D5185m	>20	3		
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	1.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5		
	Boron	ppm	ASTM D5185m		88		
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.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		58		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		367		
	Calcium	ppm	ASTM D5185m		1953		
	Phosphorus	ppm	ASTM D5185m		1044		
	Zinc	ppm	ASTM D5185m		1209		
	Sulfur	ppm	ASTM D5185m		3995		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5		
	Base Number (BN)				9.31		
		aC+			10.7		

Visc @ 100°C cSt

ASTM D445

13.7





Contact/Location: RONALD GROGAN - MACCHETR Page 2 of 2