

**OIL ANALYSIS REPORT** 

## Machine Id YB6211688 Component Diesel Engine Fluid TRC PRO-SPEC IV SYNTHETIC BLEND 15W40 (9 GAL)

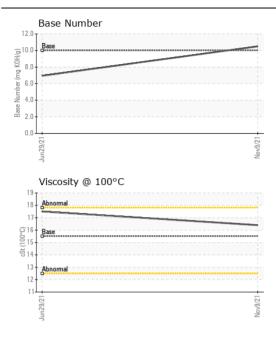
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05401944	TR05299000	
	Sample Date		Client Info		09 Nov 2021	29 Jun 2021	
	Machine Age	hrs	Client Info		3541	3340	
	Oil Age	hrs	Client Info		201	382	
	Filter Age	hrs	Client Info		201	382	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	15	32	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	21	<1	<1	
	Silver	ppm	ASTM D5185m	-3	0	0	
	Aluminum	ppm	ASTM D5185m		2	0	
	Lead		ASTM D5185m		2	11	
	Copper	ppm ppm	ASTM D5185m		2	3	
	Tin		ASTM D5185m		 <1	1	
	Vanadium	ppm	ASTM D5185m	>15	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		304141	visual	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	2	<b>4</b> .4	
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	14.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	32.1	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	10	
	Boron	ppm	ASTM D5185m		14	57	
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		121	90	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		26	84	
	Calcium	ppm	ASTM D5185m	2300	3747	2450	
	Phosphorus	ppm	ASTM D5185m	2000	870	1087	
	Zinc		ASTM D5185m	1200	1059	1215	
	Sulfur	ppm ppm	ASTM D5185m	1200	3726	4652	
	Oxidation		*ASTM D5165111	>25	12.4	21.3	
	Base Number (BN)	Abs/.1mm			12.4		
	Dase Multiber (BN)	nig KOR/g	AG TWI D2030	10	10.5	6.95	

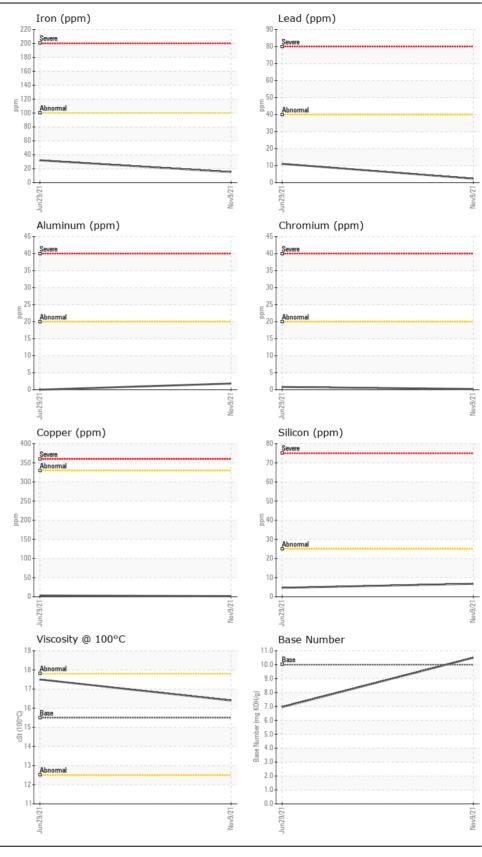
Visc @ 100°C cSt

ASTM D445 15.5

17.5

16.4







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Recieved : 16 Nov 2021 : TR05401944 Lab Number : 05401944 Diagnosed : 18 Nov 2021 Unique Number : 9746107 : Don Baldridge Diagnostician Test Package : MOB 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

US 99032

T: F:

Contact/Location: RON GROGAN - WESSPRTR