

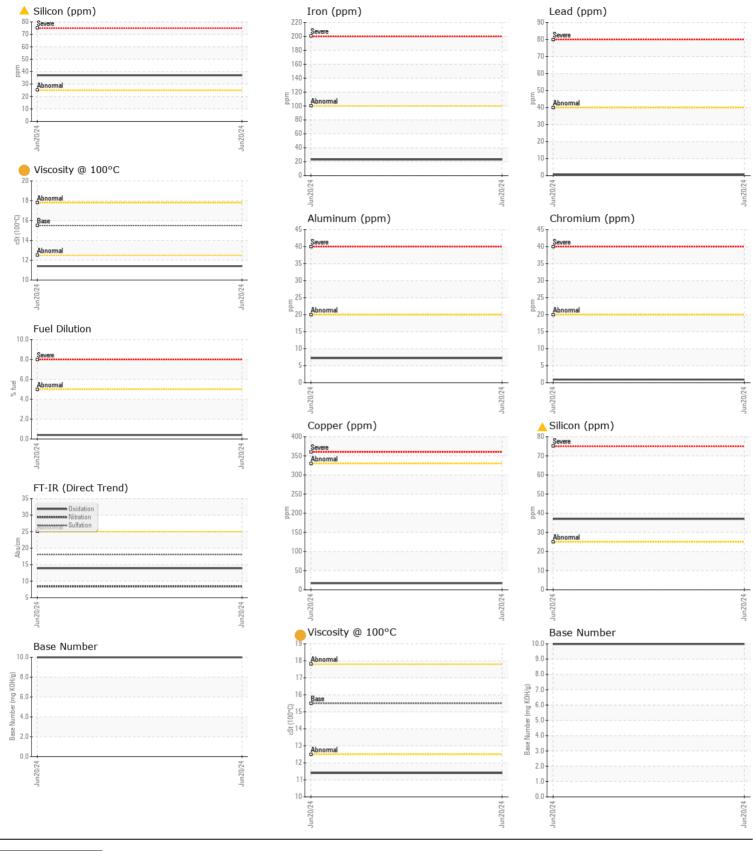
Machine Id **5085** Component **Diesel Engine** Fluid **TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (--- GAL)**

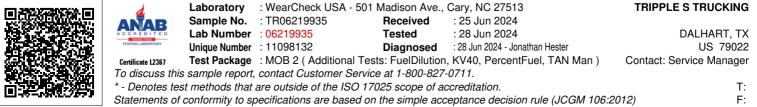
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06219935		
	Sample Date		Client Info		20 Jun 2024		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		11524		
	Filter Age	mls	Client Info		11524		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	23		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	- 1	<1		
	Silver	ppm	ASTM D5185m	-3	<1		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		, <1		
	Copper	ppm	ASTM D5185m		17		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	210	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Soular	viouui	NONE			
CONTAMINATION	Silicon	ppm	ASTM D5185m		4 37		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	26		
	Fuel	%	ASTM D3524	>5	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624		8.4		
	Sulfation	Abs/.1mm	*ASTM D7415		18.1		
	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		6		
	Boron	ppm	ASTM D5185m		71		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		9		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		781		
	Calcium	ppm	ASTM D5185m		1395		
	Phosphorus	ppm	ASTM D5185m		761		
	Zinc	ppm	ASTM D5185m		866		
	Sulfur	ppm	ASTM D5185m		3479		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9		
	Base Number (BN)				9.98		
	Vice @ 100°C	oSt		15.5			

Visc @ 100°C cSt

ASTM D445 15.5

11.4





Contact/Location: Service Manager - TRIDALTR Page 2 of 2