

**OIL ANALYSIS REPORT** 

## Machine Id FREIGHTLINER 562 Component Diesel Engine Fluid

## TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (10 GAL)

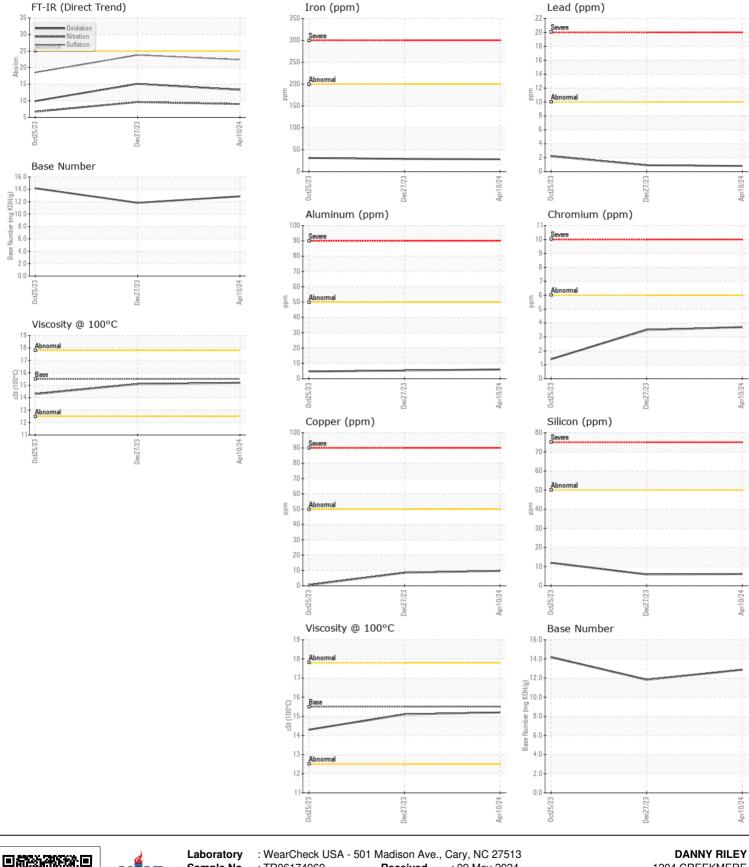
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06174069	TR06055541	TR06029608
	Sample Date		Client Info		10 Apr 2024	27 Dec 2023	25 Oct 2023
	Machine Age	mls	Client Info		863600	818000	766500
	Oil Age	mls	Client Info		45600	52000	50000
	Filter Age	mls	Client Info		45600	52000	50000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u>\200</u>	28	29	31
WEAT	Chromium	ppm	ASTM D5185m		4	4	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		3	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		6	5	5
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		10	8	<1
	Tin	ppm	ASTM D5185m		2	1	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 50	6	e	12
	Potassium	ppm	ASTM D5185m		6 5	6 2	3
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		5 <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	.2	0.6	0.5	1
	Nitration	Abs/cm	*ASTM D7644	>20	9.0	9.6	6.7
	Sulfation	Abs/.1mm	*ASTM D7024		22.4	23.8	18.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	o "					50	·····
	Sodium	ppm	ASTM D5185m		14	58	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		5	8	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		5	6	<1
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		26	55	4
	Calcium	ppm	ASTM D5185m		5259	4792	5031
	Phosphorus	ppm	ASTM D5185m		1079	974	1093
	Zinc	ppm	ASTM D5185m		1247	1237	1231
	Sulfur	ppm	ASTM D5185m	05	4449	3527	4632
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	15.1	9.9
	Base Number (BN)	mg KOH/g	ASTM D2896		12.87	11.82	14.17

Visc @ 100°C cSt ASTM D445 15.5

15.1

14.3

15.2



Sample No. Received 1204 CREEKMERE : TR06174069 :09 May 2024 Lab Number : 06174069 Tested CANYON, TX : 10 May 2024 Diagnosed Unique Number : 11020122 : 10 May 2024 - Wes Davis US 79015 Test Package : MOB 2 Contact: MIKE LEWIS 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)

Report Id: DANCANTR [WUSCAR] 06174069 (Generated: 05/10/2024 09:19:03) Rev: 1

Contact/Location: MIKE LEWIS - DANCANTR Page 2 of 2

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