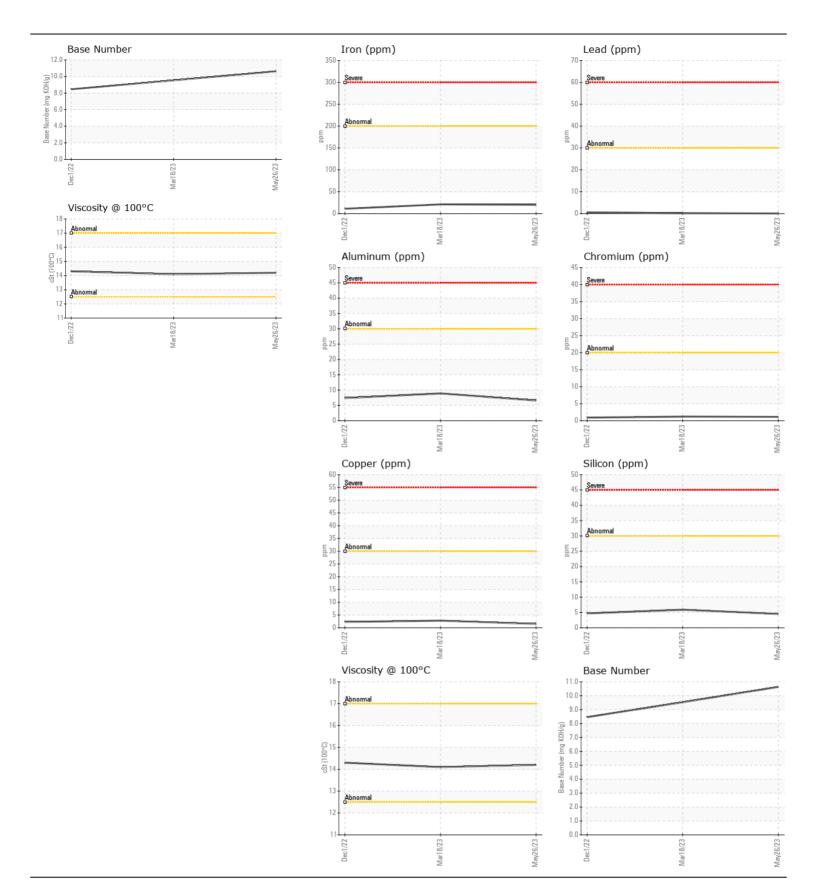
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

OIL ANALYSIS REPORT

WESTERN STAR 004

Component Diesel Engine

Resample at the next service interval to monitor. Sample Date Client Info 26 May 2021 18 May 2022 10 Machine Age hrs Client Info 18839 1808007/25 TRIGE 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1808 1	TRC PRO-SPEC V SYN BLEND 15W40 (12 GAL	_)						
Resample at the next service interval to monitor. Sample Date Client Info Sample Date Client Info 18939 18689 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 1869 183 186	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Machine Age Ins Client Info 24 May 24 6 Marz 24 7 Ma		Sample Number		Client Info			TR05801745	TR0571329
Oil Age hrs Cilent Info 270 312 299 Filter Age hrs Cilent Info Cilent Info Cilent Info Cilent Info Changed Cilent Info Changed Cilent Info Changed C		Sample Date		Client Info		26 May 2023	18 Mar 2023	01 Dec 202
Filter Age		Machine Age	hrs	Client Info		18939	18669	18357
Oil Changed Cilent Info Changed Changed Changed Sample Status Changed Sample Status Changed NORMAL		Oil Age	hrs	Client Info		270	312	299
Filter Changed Sample Status		Filter Age	hrs	Client Info		270	312	299
Iron		Oil Changed		Client Info		Changed	Changed	Changed
Iron		Filter Changed		Client Info		Changed	Changed	Changed
Chromium		Sample Status				NORMAL	NORMAL	NORMAL
Chromium	WEAR	Iron	ppm	ASTM D5185m	>200	20	21	11
Titanium ppm ASTM D5185m >2 0 0 0 0 0 0 0 0 0		Chromium	ppm	ASTM D5185m	>20	1	1	<1
Titanium ppm ASTM D5185m >2 0 0 0 0	All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Silver		Titanium		ASTM D5185m	>2	0	0	<1
Aluminum ppm ASTM D5185m >30 7 9 7 Lead ppm ASTM D5185m >30 0 <1 < < < < < < < <		Silver	ppm			0	0	0
Lead		Aluminum		ASTM D5185m	>30	7	9	7
Copper								<1
Tin		Copper		ASTM D5185m	>30	2		2
Vanadium ppm ASTM D5185m NONE NONE						0	<1	<1
White Metal Scalar *Visual NONE NO		Vanadium				0	0	0
Yellow Metal scalar *Visual NONE N		White Metal			NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 2 2 1		Yellow Metal		*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 2 2 1	CONTAMINATION	Silicon	nnm	ASTM D5185m	>30	4	6	5
Fuel WC Method So.0 C1.0 C1.0 C3.0 C4.0 C4	OSITIAMINATION							
Water WC Method So.2 NEG	There is no indication of any contamination in the oil.		ppiii					<1.0
Glycol WC Method NEG N								NEG
Soot % % *ASTM D7844 >3 0.4 0.4 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 7.2 7.6 8 Sulfation Abs/lmm *ASTM D7624 >20 7.2 7.6 8 Sulfation Abs/lmm *ASTM D7415 >30 19.1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 18.9 1 1 1 1 1 1 1 1 1					70.L			NEG
Nitration Abs/cm		-	0/2		\ 3			0.4
Sulfation Abs/.1mm "ASTM D7415 >30 19.1 18.9 1								8.3
Silt scalar *Visual NONE NONE								19.8
Debris Scalar *Visual NONE NORML NO								NONE
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML								NONE
Appearance scalar *Visual NORML NORM								NONE
Odor								NORMI
Emulsified Water scalar *Visual >0.2 NEG N								NORMI
Boron ppm ASTM D5185m 0 2 5								NEG
Boron ppm ASTM D5185m 0 0 0 0 0 0 0 0 0	LUD CONDITION	0 11		AOTA DEADE.				
Barium ppm ASTM D5185m 0 0 0 0	LUID CONDITION							
Molybdenum ppm ASTM D5185m <1 2 8								
Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 14 9 1 Calcium ppm ASTM D5185m 2543 2871 2 Phosphorus ppm ASTM D5185m 950 1094 9 Zinc ppm ASTM D5185m 1178 1253 1								
Magnesium ppm ASTM D5185m 14 9 1 Calcium ppm ASTM D5185m 2543 2871 2 Phosphorus ppm ASTM D5185m 950 1094 9 Zinc ppm ASTM D5185m 1178 1253 1		•						
Calcium ppm ASTM D5185m 2543 2871 2 Phosphorus ppm ASTM D5185m 950 1094 9 Zinc ppm ASTM D5185m 1178 1253 1		_						<1
Phosphorus ppm ASTM D5185m 950 1094 9 Zinc ppm ASTM D5185m 1178 1253 1		•						13
Zinc ppm ASTM D5185m 1178 1253 1								2416
··		·						901
Sulfur ppm ASIM D5185m 4662 4110 4								1137
O LL R MAIL MOTHER AND AGE AGE					05			4147
					>25			11.9
								8.46
Visc @ 100°C cSt ASTM D445 14.1 1		Visc @ 100°C	cSt	ASTM D445		14.2	14.1	14.3







Certificate L2367

Laboratory Sample No.

Lab Number : 05868839 Unique Number : 10508623 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR05868839

Received : 08 Jun 2023 **Tested** : 09 Jun 2023

: 09 Jun 2023 - Wes Davis Diagnosed

DALE ALLEN TRUCKING

3410 RAILROAD AVE CRESCENT CITY, CA US 95531

Contact: JEFFREY WARREN

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)

T:

F: