WEAR CONTAMINATION FLUID CONDITION

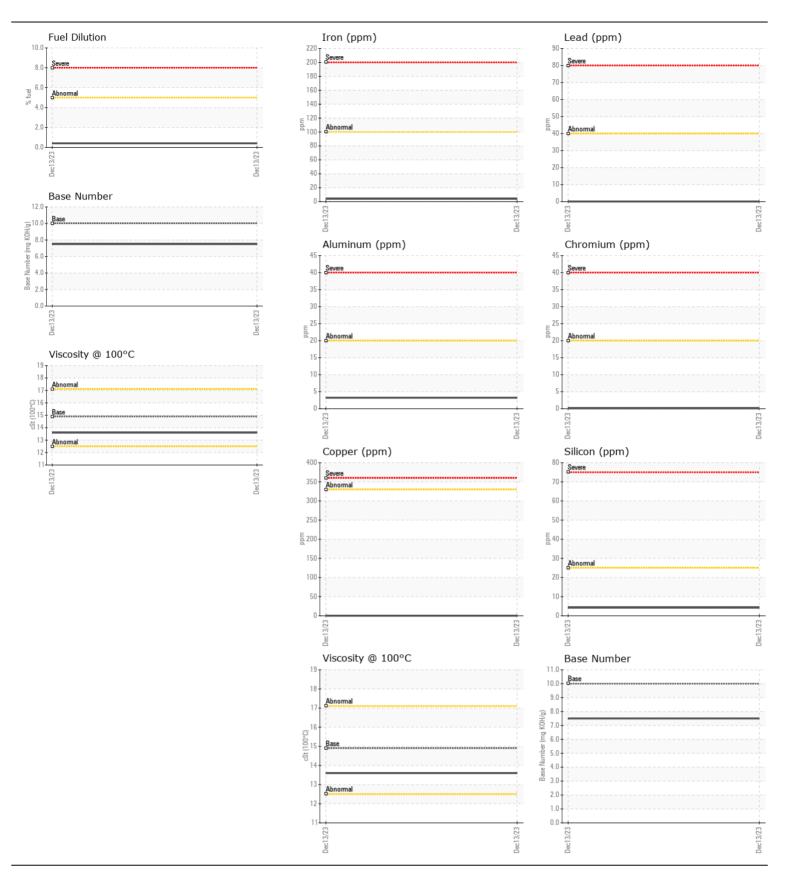
NORMAL NORMAL

Machine Id

## 130 - MIDWEST WHEEL

Diesel Fnaine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change	Sample Number		Client Info		LF0001279		
at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		13 Dec 2023		
	Machine Age	hrs	Client Info		64034		
	Oil Age	hrs	Client Info		1875		
	Filter Age	hrs	Client Info		1875		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	4		
	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	-	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		4		
Fuel centent negligible. There is no indication of any centemination in	Potassium	ppm	ASTM D5185m	>20	<1		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.5		
	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		1		
LOID CONDITION	Boron	ppm	ASTM D5185m		396		
The oil viscosity is normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0		
	Molybdenum	ppm ppm	ASTM D5185m		79		
	Manganese		ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		384		
	Calcium	ppm	ASTM D5185m		1186		
	Phosphorus	ppm	ASTM D5185m		989		
	Zinc		ASTM D5185m		1149		
	Sulfur	ppm	ASTM D5185m		3287		
	Oxidation	ppm Abs/.1mm	*ASTM D7414	<b>&gt;25</b>	15.5		
	Base Number (BN)				7.5		
	Dase Mullipel (DIV)	my NOTI/9	AOTIVI DZ030	10	1.5		





Certificate L2367

Report Id: TOTLEM [WUSCAR] 06083002 (Generated: 02/14/2024 14:14:39) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LF0001279 Lab Number : 06083002 Unique Number : 10870447

Received **Tested** Diagnosed

: 07 Feb 2024 : 13 Feb 2024

: 13 Feb 2024 - Doug Bogart Test Package: MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, TBN)

**TOTAL TRUCK CARE INC** P.O. BOX 97 LEMARS, IA

US 51031 Contact: BRENT BROWNMILLER

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

ttcinc@frontiernet.net;brent@totaltruckcareinc.com T: (712)546-4442 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (712)546-5048