

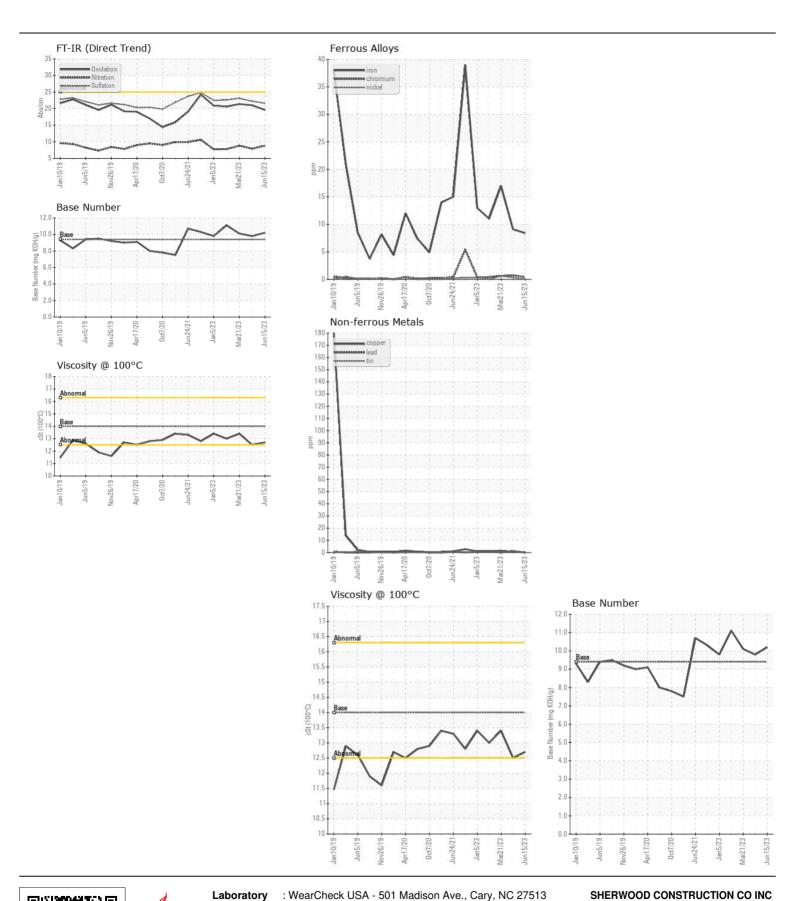
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

OKLAHOMA/3/DE - OTHER SERVICE 53.136L [OKLAHOMA^3^DE - OTHER SERVICE]

Diesel Engine

DECOMMENDATION	T1	11014	NA - N-	1 5 5 (A)	(a	118-4- 4	11:-4:
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0807942		WC080082
	Sample Date	In one	Client Info		15 Jun 2023	10 May 2023	21 Mar 202
	Machine Age	hrs	Client Info		7508	7571	7258
	Oil Age	hrs	Client Info		562	350	171
	Filter Age	hrs	Client Info		562	350	171
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed Sample Status		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
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WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	8	9	17
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	2	2	2
	Lead	ppm	ASTM D5185m	>40	0	1	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	2
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	6
	Potassium	ppm	ASTM D5185m		0	3	2
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.9	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	22.2	23.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION	Cadima		ACTM DE10E		• • • • • • • • • • • • • • • • • • • •	4	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	3	4	3
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		42 0	45 0	48
	Barium	ppm	ASTM D5185m				0
	Molybdenum	ppm	ASTM D5185m	0	38	38	42
	Manganese	ppm	ASTM D5185m	0	<1 500	<1	<1
	Magnesium	ppm	ASTM D5185m	0	508 1749	512	523
	Calcium	ppm	ASTM D5185m ASTM D5185m		1748	1753	1734
	Phosphorus	ppm			767	703	743
	Zinc	ppm	ASTM D5185m		933	926	928
		nnm	ACTM DE10E				
	Sulfur	ppm Abo/ 1mm	ASTM D5185m	, OF	3007	2760	
		Abs/.1mm	*ASTM D7414		3007 19.6 10.2	2760 21.0 9.8	3110 21.4 10.1







Certificate L2367

Laboratory Sample No.

Lab Number : 05879372 Unique Number : 10524475

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0807942

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

Received

: 22 Jun 2023 : 22 Jun 2023 - Wes Davis

: 21 Jun 2023

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING

To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (316)617-3161 F: x:

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

Submitted By: GARRETT ADAMS