

**WEAR CONTAMINATION FLUID CONDITION** 

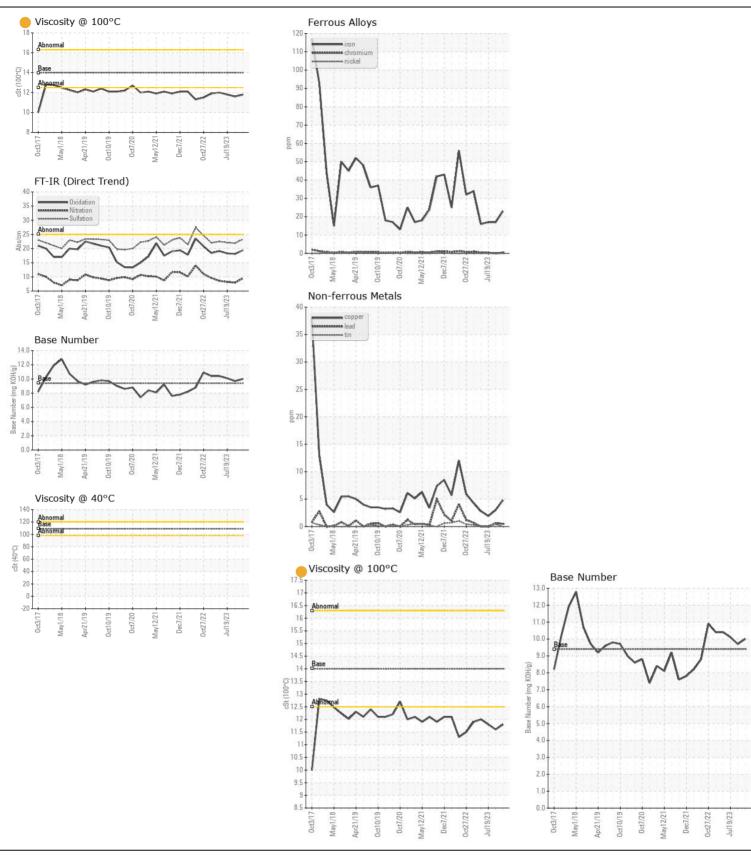
**NORMAL NORMAL ATTENTION** 



## OKLAHOMA/102/EG - DOZER 38.84 [OKLAHOMA^102^EG - DOZER]

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUTI	WC0873892	WC0821746	WC083411
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		10 Nov 2023	24 Aug 2023	19 Jul 2023
	Machine Age	hrs	Client Info		9970	9600	9184
	Oil Age	hrs	Client Info		370	416	230
	Filter Age	hrs	Client Info		370	416	230
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Ollottic litilo		ATTENTION	ATTENTION	ATTENTION
VEAR	Iron	ppm	ASTM D5185m	>100	23	17	17
WEAIT	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	1
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		5	3	2
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	77	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	4	4
	Potassium	ppm	ASTM D5185m	>20	2	0	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.2	0.9	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.0	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	21.9	22.1
	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
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	1
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		25	28	35
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0	33	36	37
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	390	447	469
	Calcium	ppm	ASTM D5185m		1864	1939	1919
	Phosphorus	ppm	ASTM D5185m		727	758	793
	Zinc	ppm	ASTM D5185m		933	940	982
	Sulfur	ppm	ASTM D5185m		3119	3087	3322
	ouu.						
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	18.1	18.3
			*ASTM D7414 ASTM D2896		19.4 10.0	18.1 9.7	18.3 10.1







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06012065

: WC0873892

Received **Tested** Unique Number : 10751209

Diagnosed Test Package : CONST ( Additional Tests: KV40, TBN ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 20 Nov 2023

: 21 Nov 2023 : 21 Nov 2023 - Don Baldridge

WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161

3219 WEST MAY ST

SHERWOOD CONSTRUCTION CO INC

\* - 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)

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