

WEAR
CONTAMINATION
FLUID CONDITION

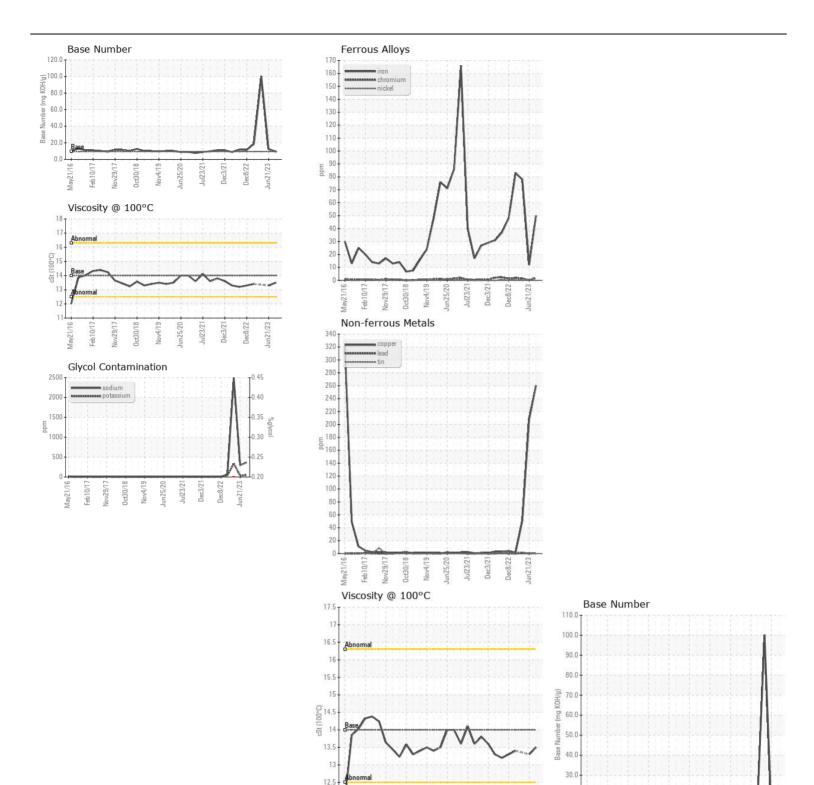
NORMAL ABNORMAL ABNORMAL



OKLAHOMA/102/EG - DOZER Machine Id 35.11L [OKLAHOMA^102^EG - DOZER]

Component Diesel Engine

MOBIL DELVAC 1300 SUPER15	5W40 (G <i>A</i>	AL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOGRAMICATION	Sample Number	OOW	Client Info	LIIII(/ toll	WC0821744	WC0807931	WC0821732
We advise that you check for the source of the coolant leak. Check for	Sample Date		Client Info		15 Feb 2024	21 Jun 2023	08 Jun 2023
low coolant level. Oil and filter change at the time of sampling has been	Machine Age	hrs	Client Info		8776	8306	8278
noted. We recommend an early resample to monitor this condition.	Oil Age	hrs	Client Info		470	50	189
	Filter Age	hrs	Client Info		470	50	189
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	50	12	78
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	<1	2
	Nickel	ppm	ASTM D5185m	>2	1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>25	11	<1	3
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	260	<u>^</u> 208	51
	Tin	ppm	ASTM D5185m	>15	<1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	16	8	23
Sodium and/or potassium levels are high.	Potassium	ppm	ASTM D5185m		<u> </u>	△ 37	△ 337
Socialiti and/or potassium levels are night.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	▲ 0.20
	Soot %	%	*ASTM D7844		0.3	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.1	23.7
	Sulfation	Abs/.1mm	*ASTM D7415		22.2	22.1	0.0
	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	MILKY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	▲ 0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		△ 367	<u> </u>	<u>4</u> 2495
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		19	29	173
oil.	Barium	ppm	ASTM D5185m	0	2	0	0
	Molybdenum	ppm	ASTM D5185m	0	140	103	520
	Manganese	ppm	ASTM D5185m		3	1	1
	Magnesium	ppm	ASTM D5185m	0	666	460	307
	Calcium	ppm	ASTM D5185m		2180	1626	1059
	Phosphorus	ppm	ASTM D5185m		916	741	598
	Zinc	ppm	ASTM D5185m		1212	860	628
	Sulfur	ppm	ASTM D5185m		3373	2469	1989
	Oxidation	Abs/.1mm	*ASTM D7414		22.0	19.7	23.3
	Base Number (BN)				9.3	12.1	100.2
	Visc @ 100°C	cSt	ASTM D445	14	13.5	13.3	







Report Id: SHEWIC [WUSCAR] 06102724 (Generated: 03/07/2024 11:48:55) Rev: 1

Laboratory Sample No.

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

: WC0821744 Lab Number : 06102724 Unique Number: 10900954

Received **Tested** Diagnosed

: 04 Mar 2024 - Jonathan Hester Test Package : CONST (Additional Tests: Glycol, TBN)

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. SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213

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Jun21/23

Contact: DOUG KING doug.king@sherwood.net

T: (316)617-3161 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

20.0 10.0

Jun21/23

: 28 Feb 2024

: 04 Mar 2024