

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

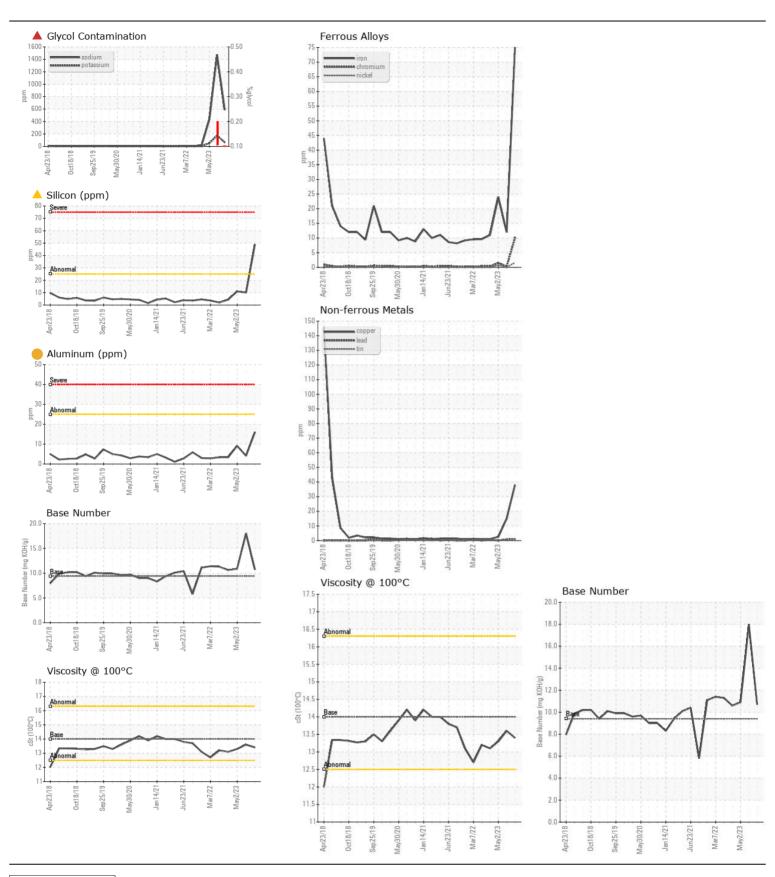
**ATTENTION SEVERE ABNORMAL** 



## OKLAHOMA/102/EG - DOZER 35.102L [OKLAHOMA^102^EG - DOZER]

Component Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEGGMMENDATION	Sample Number	00	Client Info	2	WC0873938		WC0792507
We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction	Sample Date		Client Info		07 Nov 2023	05 Jul 2023	02 May 2023
	Machine Age	hrs	Client Info		7971	7590	7406
system, and any areas where dirt may enter the component. Oil and	Oil Age	hrs	Client Info		263	130	255
filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Filter Age	hrs	Client Info		263	130	255
an early resumpte to memor this condition.	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	75	12	24
W=7111	Chromium	ppm	ASTM D5185m		10	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	0	<1
	Titanium	ppm	ASTM D5185m		- <1	<1	<1
	Silver	ppm		>2	0	0	0
	Aluminum	ppm	ASTM D5185m		<u> </u>	4	9
	Lead	ppm	ASTM D5185m		1	<1	0
	Copper	ppm	ASTM D5185m	>330	38	15	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	<b>4</b> 9	10	11
	Potassium	ppm	ASTM D5185m	>20	<u> </u>	<u> 175</u>	<u></u> 52
Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.10	▲ 0.20	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	10.0	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	23.8	23.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<u>▲</u> 585	<u> </u>	<b>434</b>
The DN constituted to the title on the city of the land of the constituted of the city of the constituted of the city of the c	Boron	ppm	ASTM D5185m	0	33	41	44
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m	0	<1	0	3
OII.	Molybdenum	ppm	ASTM D5185m	0	151	277	112
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m	0	538	459	496
	Calcium	ppm	ASTM D5185m		1798	1575	1717
	Phosphorus	ppm	ASTM D5185m		800	723	760
	Zinc	ppm	ASTM D5185m		1002	844	913
	Sulfur	ppm	ASTM D5185m		2706	2981	2736
	Oxidation	Abs/.1mm	*ASTM D7414	_	21.9	20.4	21.1
	Base Number (BN)				10.7	18.0	10.9
	Visc @ 100°C	cSt	ASTM D445	14	13.4	13.6	13.3







Report Id: SHEWIC [WUSCAR] 06013078 (Generated: 03/20/2024 08:50:18) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0873938 Lab Number : 06013078

Unique Number : 10752222

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Diagnosed Test Package : CONST ( Additional Tests: KV40, TBN )

: 20 Nov 2023 : 29 Nov 2023

: 29 Nov 2023 - Jonathan Hester

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS

US 67213 Contact: DOUG KING doug.king@sherwood.net

T: (316)617-3161 F: x:

\* - 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)