

# **OIL ANALYSIS REPORT**



Sample Rating Trend





# OKLAHOMA/102/EG - DOZER 35.101L [OKLAHOMA^102^EG - DOZER]

Diesel Engine

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 9152 hrs )

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

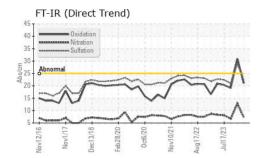
### **Fluid Condition**

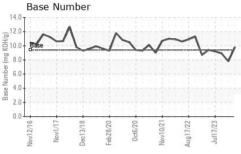
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

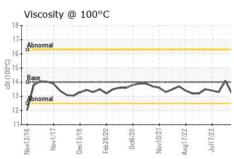
SUPER15W40 (	- GAL)	v2016 Nov20	117 Dec2018 Feb2020	Oct2020 Nov2021 Aug2022	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864430	WC0873895	WC0857351
Sample Date		Client Info		09 Apr 2024	11 Jan 2024	17 Oct 2023
Machine Age	hrs	Client Info		12101	12101	8898
Oil Age	hrs	Client Info		12101	250	6708
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	31	85	12
Chromium	ppm	ASTM D5185m	>20	<1	3	<1
Vickel	ppm	ASTM D5185m	>2	0	1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	7	3
Lead	ppm	ASTM D5185m	>40	0	16	<1
Copper	ppm	ASTM D5185m	>330	3	30	<1
Γin	ppm	ASTM D5185m	>15	0	2	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	60	48	40
Barium	ppm	ASTM D5185m	0	1	<1	0
Molybdenum	ppm	ASTM D5185m	0	45	49	45
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m	0	520	535	511
Calcium	ppm	ASTM D5185m		1692	1788	1644
Phosphorus	ppm	ASTM D5185m		764	795	771
Zinc	ppm	ASTM D5185m		909	944	920
Sulfur	ppm	ASTM D5185m		2912	2279	2870
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	18	5
Sodium	ppm	ASTM D5185m		19	6	4
Potassium	ppm	ASTM D5185m	>20	3	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	1.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.1	12.9	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	28.9	21.0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	30.9	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.8	7.8	8.9



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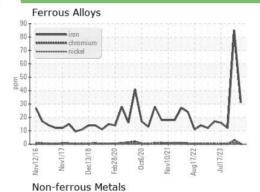


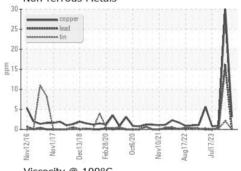


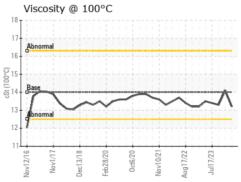
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

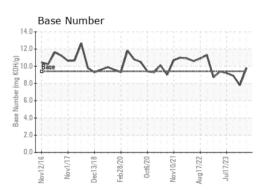
FLUID PROPER	IIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14	13.2	14.1	13.3

### **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0864430 Lab Number : 06155631 Unique Number : 10991054

Received **Tested** Diagnosed

: 22 Apr 2024 : 23 Apr 2024 : 24 Apr 2024 - Don Baldridge

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213

Test Package : CONST ( Additional Tests: TBN ) Certificate 12367 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.

doug.king@sherwood.net T: (316)617-3161

Contact: DOUG KING

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

F: x: Submitted By: LOUIS BRESHEARS