

# **OIL ANALYSIS REPORT**

# OKLAHOMA/105/COOL - Loader 46.102L [OKLAHOMA^105^COOL - Loader] Component

**Diesel Engine** 

MOBIL DELVAC 1300 SUPER15W40 (6 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

## 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.



SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0886954	WC0873927	WC0834150
Sample Date		Client Info		29 Jan 2024	17 Nov 2023	01 Aug 2023
Machine Age	hrs	Client Info		14086	13990	13548
Oil Age	hrs	Client Info		250	150	13113
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	7	6
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	<1	<1
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	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	45	45	47
Barium	ppm	ASTM D5185m	0	<1	0	2
Molybdenum	ppm	ASTM D5185m	0	50	47	65
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	458	479	487

magnoolam	ppm		0	400	110	101
Calcium	ppm	ASTM D5185m		1512	1711	1787
Phosphorus	ppm	ASTM D5185m		695	786	771
Zinc	ppm	ASTM D5185m		840	980	933
Sulfur	ppm	ASTM D5185m		2350	2684	2832
CONTAMINANTS		method				history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m		93	66	<b>1</b> 36
Potassium	ppm	ASTM D5185m	>20	5	3	7
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	0.7

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Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.6	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	22.5	22.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
FLUID DEGRADA Oxidation	TION Abs/.1mm	method *ASTM D7414	limit/base >25	current 19.3	history1 19.3	history2 19.6



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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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	12.3	12.2	13.2
GRAPHS						

Ferrous Alloys 70





Certificate L2367

Laboratory