

# **OIL ANALYSIS REPORT**

Sample Rating Trend





# OKLAHOMA/102 76.37L [OKLAHOMA^102] Component

**Diesel Engine** Fluid

MOBIL DELV

300 SUPER15W40 (	GAL)	May2022	Nov2022 Feb2023	Apr2023 May2023 Jun2023	Dec2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info		WC0864281 18 Dec 2023 1412 116 Changed ATTENTION	WC0819967 15 Jun 2023 1175 1025 Changed ATTENTION	WC0746726 10 May 2023 1025 858 Changed ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
ult WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm   ppm   ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>2 >2 >2 >40 >330 >15 limit/base 0 0 0	17 <1 0 0 2 0 68 0 0 68 0 0 0 0 0 0 2 9 0 4 1 0 5 17 1605 745 885	20 2 <1 0 <1 <1 4 193 1 <1 <1 <1 <1 28 <1 44 1 585 1784 773 976	40 2 0 <1 0 0 8 ▲ 612 2 0 0 0 bistory2 12 0 0 12 0 38 1 534 1718 742 900
Sulfur	ppm	ASTM D5185m	1	2571	2736	2117
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m		current 8 1 1	history1 8 4 1	history2 15 5 <1
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415		0.4 8.3 22.1	0.4 8.4 22.7	0.8 12.0 23.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.4	19.6 8.2	20.2 8.8	23.2 6.5

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling h been noted. Resample at the next service int to monitor. ( Customer Sample Comment: 14 )

## Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in oil.

### Fluid Condition

The oil viscosity is lower than normal. The BN indicates that there is suitable alkalinity rema the oil. Confirm oil type.



2.0

0.0

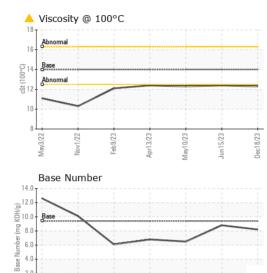
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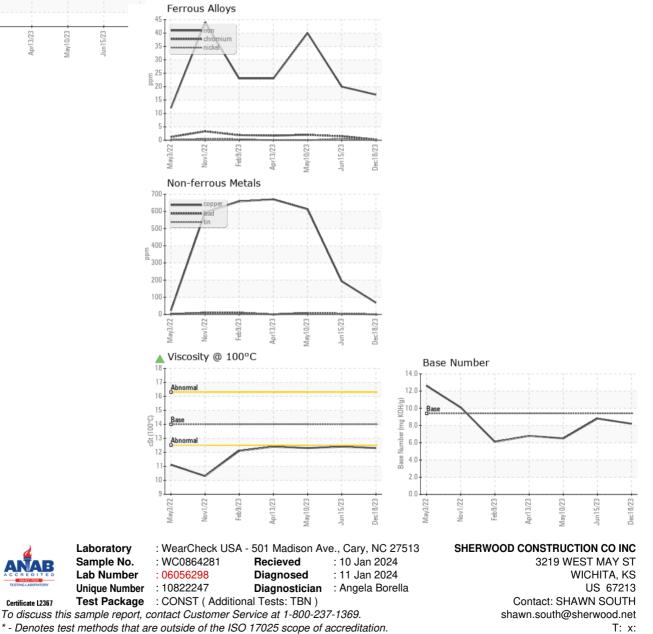
Vnv1/77

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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	<b>12.3</b>	<b>1</b> 2.4	<b>1</b> 2.3
GRAPHS						



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

F: x: