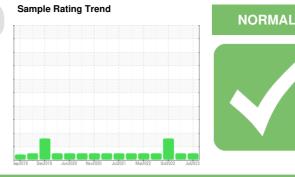


## **OIL ANALYSIS REPORT**

## ÖKLAHOMA/102/EG - MOTOR GRADER 78.256 [OKLAHOMA^102^EG - MOTOR GRADER] Compon

**Diesel Engine** 

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





Resample at the next service interval to monitor.

There is no indication of any contamination in the

alkalinity remaining in the oil. The condition of the

The BN result indicates that there is suitable

oil is suitable for further service.

All component wear rates are normal.

DIAGNOSIS

Contamination

Fluid Condition

Wear

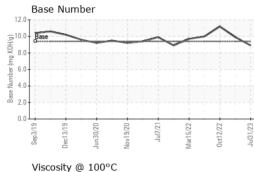
oil

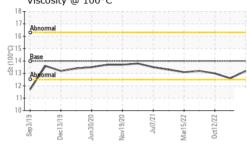
Recommendation

## SAMPLE INFORMATION method WC0808080 WC0769683 WC0746285 Sample Number **Client Info** 31 Jul 2023 Sample Date Client Info 16 Feb 2023 12 Oct 2022 7175 Machine Age hrs Client Info 6477 6235 Oil Age hrs Client Info 260 242 270 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL ABNORMAL CONTAMINATION Fuel WC Method <1.0 >5 <1.0 <1.0 Glycol WC Method NEG NEG NEG WEAR METALS 9 6 Iron ASTM D5185m >105 8 ppm ASTM D5185m >5 Chromium ppm <1 <1 <1 Nickel ASTM D5185m <1 0 0 ppm >4 ASTM D5185m >2 Titanium ppm <1 <1 <1 Silver ppm ASTM D5185m >2 0 <1 <1 Aluminum ASTM D5185m >10 2 2 3 ppm ASTM D5185m >15 4 Lead ppm <1 1 Copper ASTM D5185m >140 <1 <1 ppm <1 Tin ppm ASTM D5185m >4 <1 <1 <1 0 Vanadium ASTM D5185m 0 ppm <1 Cadmium ppm ASTM D5185m 0 0 0 50 0 37 Boron ppm ASTM D5185m 35 Barium ppm ASTM D5185m O 0 0 0 ASTM D5185m 41 39 40 Molybdenum ppm 0 Manganese ppm ASTM D5185m <1 <1 <1 473 ASTM D5185m 0 482 Magnesium ppm 472 Calcium ASTM D5185m 1648 1664 1761 ppm Phosphorus ppm ASTM D5185m 737 706 760 Zinc ASTM D5185m 908 849 936 ppm Sulfur 2815 2891 ppm ASTM D5185m 2648 CONTAMINANTS Silicon ASTM D5185m >25 6 13 **A** 27 ppm 2 Sodium ASTM D5185m <1 ppm <1 Potassium ASTM D5185m >20 0 2 1 ppm **INFRA-RED** Soot % % \*ASTM D7844 >3 0.3 0.2 0.2 >20 Nitration Abs/cm \*ASTM D7624 8.7 6.7 8.7 Sulfation Abs/.1mm \*ASTM D7415 >30 22.0 21.8 24.3 Abs/.1mm \*ASTM D7414 >25 21.6 19.9 23.1 Oxidation Base Number (BN) mg KOH/g ASTM D2896 9.4 8.9 9.9 11.2

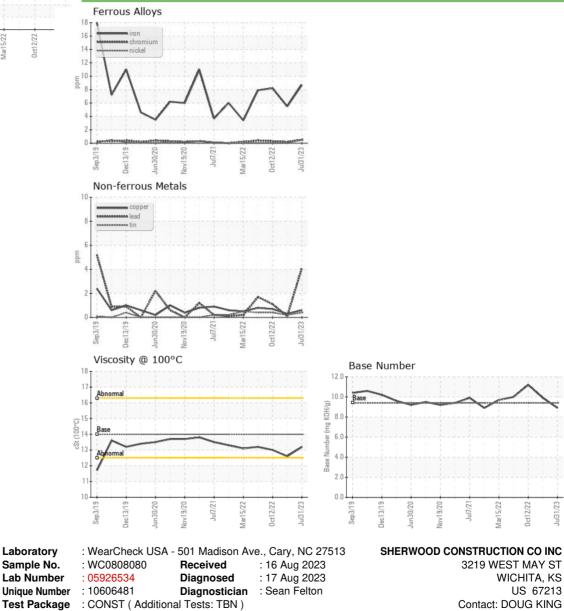


## **OIL ANALYSIS REPORT**





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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	13.2	12.6	13.0
GRAPHS						



Test Package : CONST (Additional Tests: TBN) Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161 F: x:



Jul31/23 -