

## **OIL ANALYSIS REPORT**

**OKLAHOMA/102/EG - EXCAVATOR** 

20.510L [OKLAHOMA^102^EG - EXCAVATOR]

# 

Sample Rating Trend



NORMAL

Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)

# 

#### SAMPLE INFORMATION method WC0819863 WC0746873 WC0778305 Sample Number **Client Info** Sample Date Client Info 28 Nov 2023 26 May 2023 08 Mar 2023 Machine Age hrs **Client Info** 9908 9342 10086 Oil Age hrs Client Info 9908 10086 500 Oil Changed Client Info N/A N/A Changed NORMAL Sample Status NORMAL ATTENTION CONTAMINATION WC Method >0.1 NEG NEG NEG Water WEAR METALS ppm ASTM D5185m >20 6 4 9 Iron Chromium ASTM D5185m >10 <1 ppm <1 <1 0 0 0 Nickel ppm ASTM D5185m >10 Titanium ASTM D5185m 0 0 ppm <1 0 0 Silver 0 ppm ASTM D5185m Aluminum ppm ASTM D5185m >10 2 0 2 Lead ASTM D5185m >10 0 0 0 ppm 0 Copper ppm ASTM D5185m >75 <1 <1 Tin ASTM D5185m >10 0 <1 0 ppm Vanadium 0 0 0 ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 26 25 28 Boron ASTM D5185m ppm Barium ppm ASTM D5185m 0 0 0 Molvbdenum ppm ASTM D5185m 0 <1 1 ASTM D5185m <1 <1 Manganese ppm <1 Magnesium ASTM D5185m 18 20 27 ppm 2565 Calcium ASTM D5185m 2786 ppm 2411 Phosphorus ASTM D5185m 850 883 918 ppm Zinc ppm ASTM D5185m 1009 1115 1199 Sulfur ASTM D5185m 3903 4971 4741 ppm CONTAMINANTS 6 Silicon ppm ASTM D5185m >20 6 6 Sodium ASTM D5185m 3 2 3 ppm Potassium ASTM D5185m >20 0 0 ppm <1 FLUID CLEANLINESS 36632 Particles >4µm ASTM D7647 1623 975 Particles >6µm 237 90 4045 ASTM D7647 >2500 23 10 85 Particles >14um ASTM D7647 >640

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 9908 hrs )

Componen

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Particles >21µm

Particles >38µm

Particles >71µm

**Oil Cleanliness** 

Acid Number (AN)

FLUID DEGRADATION

mg KOH/g

ASTM D7647

ASTM D7647

ISO 4406 (c)

ASTM D8045

ASTM D7647 >10

>160

>--/18/16

>40

9

1

0

18/15/12

1.12

1.11 0.97

3

0

0

17/14/10

Submitted By: LOUIS BRESHEARS

18

1

0

22/19/14



## **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	LIGHT	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	85.0	84.3	90.7
SAMPLE IMAGES	8	method	limit/base	current	history1	history2
Color						

Bottom



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

Certificate L2367

Submitted By: LOUIS BRESHEARS

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