

# **OIL ANALYSIS REPORT**



**Keye** 

Area **OKLAHOMA/102/EG - EXCAVATOR** 20.409L [OKLAHOMA^102^EG - EXCAVATOR] Component Hydraulic System Fluid

MOBIL MOBILTRANS AST 30 (--- GAL)

## DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

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

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0886862	WC0887020	WC0726260	
Sample Date		Client Info		05 Apr 2024	05 Mar 2024	27 Sep 2022	
Machine Age	hrs	Client Info		5752	5600	4210	
Oil Age	hrs	Client Info		3020	525	500	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	13	13	5	
Chromium	ppm	ASTM D5185m	>10	0	<1	0	
Nickel	ppm	ASTM D5185m	>10	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	2	2	
Lead	ppm	ASTM D5185m	>10	<1	2	<1	
Copper	ppm	ASTM D5185m	>75	11	10	4	
Tin	ppm	ASTM D5185m	>10	<1	1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		33	26	24	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		<1	1	2	
Manganese	ppm	ASTM D5185m		1	<1	<1	
Magnesium	maa	ASTM D5185m		25	16	23	
Calcium	ppm	ASTM D5185m		2998	2557	2323	
Phosphorus	maa	ASTM D5185m		1054	898	811	
Zinc	ppm	ASTM D5185m		1240	926	1006	
Sulfur	ppm	ASTM D5185m		5592	4465	4338	
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CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	5	6	4	
Sodium	ppm	ASTM D5185m		3	3	0	
Potassium	ppm	ASTM D5185m	>20	2	0	2	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		46449	92030	1911	
Particles >6µm		ASTM D7647	>2500	90	<b>1</b> 5737	623	
Particles >14µm		ASTM D7647	>640	8	1286	114	
Particles >21µm		ASTM D7647	>160	3	<u> </u>	33	
Particles >38µm		ASTM D7647	>40	1	2	0	
Particles >71µm		ASTM D7647	>10	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/18/16	23/14/10	▲ 24/21/17	18/16/14	
FLUID DEGRADA		method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.32	1.37	0.83	
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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	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	94.1	94.9	77.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						



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)

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Certificate 12367

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Page 2 of 2

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