

# **OIL ANALYSIS REPORT**



## **WATER**





OKLAHOMA/102/EG - BACKHOE LOADER 53.513L [OKLAHOMA^102^EG - BACKHOE LOADER]

Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)

### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: 5634

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

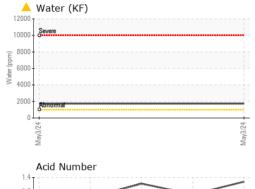
### **Fluid Condition**

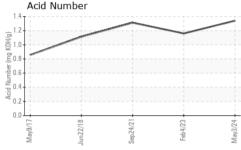
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

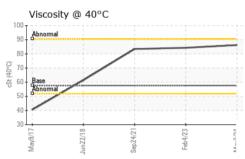
AST 30 ( GAL)		May2017	Jun2018	Sep2021 Feb2023	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864414	WC0603280	WC0622954
Sample Date		Client Info		03 May 2024	04 Feb 2023	24 Sep 2021
Machine Age	hrs	Client Info		5634	4697	3420
Oil Age	hrs	Client Info		3420	2280	500
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	9	8	6
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Γitanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	6	4	4
_ead	ppm	ASTM D5185m	>10	4	5	3
Copper	ppm	ASTM D5185m	>75	5	2	1
Γin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		29	29	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		44	41	13
Calcium	ppm	ASTM D5185m		2522	2320	2372
Phosphorus	ppm	ASTM D5185m		922	855	872
Zinc	ppm	ASTM D5185m		1158	1085	1128
Sulfur	ppm	ASTM D5185m		4716	4108	3644
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	15	12	9
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	<1	4	2
Vater	%	ASTM D6304	>0.1	<b>△</b> 0.174		
opm Water	ppm	ASTM D6304	>1000	<b>1740</b>		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			8250	3804
Particles >6µm		ASTM D7647	>2500		1685	349
Particles >14μm		ASTM D7647	>640		98	19
Particles >21µm		ASTM D7647	>160		24	5
Particles >38µm		ASTM D7647	>40		2	0
Particles >71µm		ASTM D7647	>10		0	0
Oil Cleanliness		ISO 4406 (c)	>/18/16		20/18/14	19/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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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	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	86.2	84.3	83.4

method

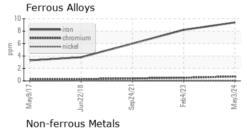
Color

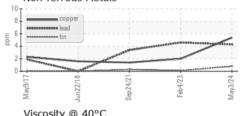


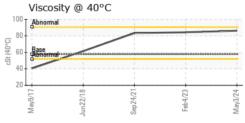
SAMPLE IMAGES

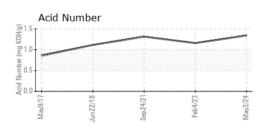


#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WC0864414 Lab Number : 06177082

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number : 11023135

: 13 May 2024 : 17 May 2024 Diagnosed : 17 May 2024 - Jonathan Hester Test Package : CONST ( Additional Tests: KF )

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net

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)

T: (316)617-3161 F: x:

Report Id: SHEWIC [WUSCAR] 06177082 (Generated: 05/17/2024 08:17:55) Rev: 1

Submitted By: LOUIS BRESHEARS

SHERWOOD CONSTRUCTION CO INC