

OIL ANALYSIS REPORT

Sample Rating Trend



OKLAHOMA/102/EG - BACKHOE LOADER 53.513L [OKLAHOMA^102^EG - BACKHOE LOADER] Component Hydraulic System Fluid MOBIL MOBILTRANS AST 30 (--- GAL)

DIAGNOSIS

Recommendation Resample at the next service interval to monitor. (Customer Sample Comment: 5726 hours)

Area

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.

SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0925208	WC0864414	WC0603280
Sample Date		Client Info		10 Jun 2024	03 May 2024	04 Feb 2023
Machine Age	hrs	Client Info		5726	5634	4697
Oil Age	hrs	Client Info		3420	3420	2280
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATIO	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	8	9	8
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	5	6	4
Lead	ppm	ASTM D5185m	>10	4	4	5
Copper	ppm	ASTM D5185m	>75	2	5	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		25	29	29
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	3
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		39	44	41
Calcium	ppm	ASTM D5185m		2565	2522	2320
Phosphorus	ppm	ASTM D5185m		938	922	855
Zinc	ppm	ASTM D5185m		1154	1158	1085
Sulfur	ppm	ASTM D5185m		4788	4716	4108
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	15	12
Sodium	ppm	ASTM D5185m		4	4	2
Potassium	ppm	ASTM D5185m	>20	2	<1	4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		963		8250
Particles >6µm		ASTM D7647	>2500	230		1685
Particles >14µm		ASTM D7647	>640	29		98
Particles >21µm		ASTM D7647	>160	8		24
Particles >38µm		ASTM D7647	>40	0		2
Particles >71µm		ASTM D7647	>10	0		0

ISO 4406 (c) >--/18/16

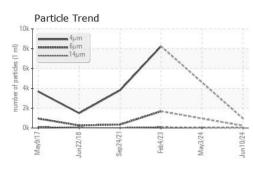
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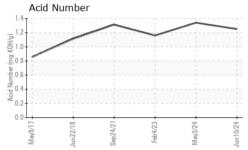
Oil Cleanliness

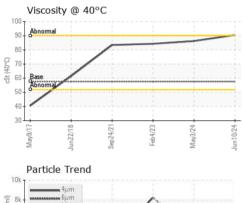
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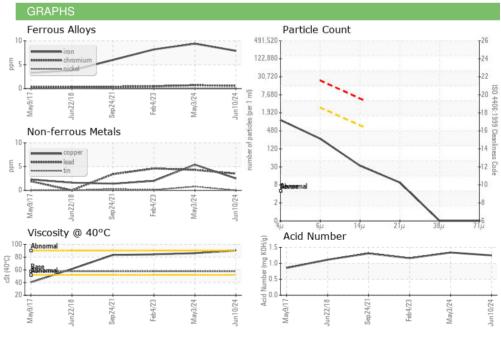
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FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.25	1.34	1.16
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	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	0.2%	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	90.5	86.2	84.3
SAMPLE IMAGES	3	method	limit/base	current	history1	history2

Color

Bottom





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOOD CONSTRUCTION CO INC Sample No. : WC0925208 3219 WEST MAY ST Received : 17 Jun 2024 Lab Number : 06212292 Tested : 19 Jun 2024 WICHITA, KS Unique Number : 11085156 Diagnosed : 19 Jun 2024 - Don Baldridge US 67213 Test Package : CONST Contact: DOUG KING Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. doug.king@sherwood.net T: (316)617-3161 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: x:

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

Report Id: SHEWIC [WUSCAR] 06212292 (Generated: 06/22/2024 00:12:33) Rev: 1

Submitted By: LOUIS BRESHEARS

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