

OIL ANALYSIS REPORT



Area OKLAHOMA/102 20.526L [OKLAHOMA^102]

Hydraulic System Fluid MOBIL MOBILTRANS AST 30 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

📥 Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0848868	WC0864294	WC0857274
Sample Date		Client Info		05 Apr 2024	19 Feb 2024	07 Nov 2023
Machine Age	hrs	Client Info		2469	2236	1868
Oil Age	hrs	Client Info		500	1868	1868
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAI	ABNORMAL	ABNORMAL
Campio Claido					, BHOT III, IE	, IBITOTIUM (E
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	<u> </u>	4 0	A 32
Chromium	ppm	ASTM D5185m	>10	2	3	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	8	7
Lead	ppm	ASTM D5185m	>10	0	4	<1
Copper	ppm	ASTM D5185m	>75	10	16	17
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		24	18	6
Barium	ppm	ASTM D5185m		0	0	7
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		14	14	11
Calcium	ppm	ASTM D5185m		2568	2147	1386
Phosphorus	ppm	ASTM D5185m		973	896	873
Zinc	ppm	ASTM D5185m		1178	1047	1071
Sulfur	ppm	ASTM D5185m		5138	3540	3256
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2 7	4 4	3 0
Sodium	ppm	ASTM D5185m		4	5	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		77225	103388	6685
Particles >6µm		ASTM D7647	>2500	1712	▲ 5290	2495
Particles >14µm		ASTM D7647	>640	41	7	177
Particles >21µm		ASTM D7647	>160	7	2	26
Particles >38um		ASTM D7647	>40	0	0	0
Particles >71um		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/16	23/18/13	▲ 24/20/10	20/18/15
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/a	ASTM D8045		1.35	1.27	0.70
:31:22) Bev: 1	5 5				Submitted By: P	ATRICIA BIBI



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number of particles (per 1

480

120

30

1.2 (B/HOX

1.0

Ē 0.8

0.0 Number

0.4 Arid 0.2

0.0

Mar3/22

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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	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	historv1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	83.2	72.9	56.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



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