

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

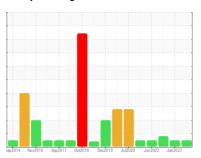
## NORMAL



OKLAHOMA/102/EG - DOZER
Machine Id
35.97L [OKLAHOMA^102^EG - DOZER]

Main Hydraulic System

**MOBIL MOBILTRANS AST 30 (--- GAL)** 





#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### 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.

AST 30 ( GAL)		Sep2014 Nov2	016 Sep2017 Oct2018	Dec2019 Jul2020 Jun2022	Jan2023	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0821773	WC0778424	WC0741182
Sample Date		Client Info		28 Oct 2023	30 Jan 2023	18 Oct 2022
Machine Age	hrs	Client Info		12600	11343	11114
Oil Age	hrs	Client Info		500	1000	4916
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	10	8	8
Chromium	ppm	ASTM D5185m	>10	1	1	1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	8	5	6
Lead	ppm	ASTM D5185m	>10	2	<1	<1
Copper	ppm	ASTM D5185m	>75	7	5	5
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	17	18
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	2	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		27	25	24
Calcium	ppm	ASTM D5185m		2946	3006	2967
Phosphorus	ppm	ASTM D5185m		1002	936	975
Zinc	ppm	ASTM D5185m		1253	1161	1214
Sulfur	ppm	ASTM D5185m		4492	4719	4992
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	21	16	15
Sodium	ppm	ASTM D5185m		3	4	5
Potassium	ppm	ASTM D5185m	>20	2	<1	3
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9412	6158	14392
Particles >6µm		ASTM D7647	>2500	229	616	<u>^</u> 2639
Particles >14µm		ASTM D7647	>640	9	31	55
Particles >21µm		ASTM D7647	>160	2	6	6
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/16	20/15/10	20/16/12	<u>^</u> 21/19/13
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2

1.55

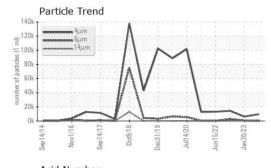
Acid Number (AN) mg KOH/g ASTM D8045

1.26

1.42



# **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	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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLID DDODEDT	IEC	mothod	limit/bass	ourront	hiotony1	history?

Acid Number

FLUID PROPER	RTIES	method				history
Visc @ 40°C	cSt	ASTM D445	57.6	95.6	95.4	95.9

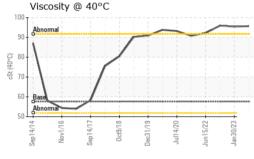
SAMPLE IMAGES

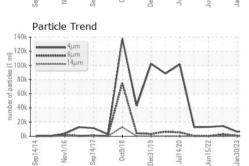
Color

**Bottom** 









	APHS												
	rous All	oys							rticle Co	unt			
I_	iron	1			-			491,520					T <sup>26</sup>
	chron	nium		/	-1			122,880					-24
7	IIICKE		1	/		-		30,720					-22
- metal	ennanne.	$\subseteq$		ALLES THE PARTY NAMED IN	-		***************************************	7,680					20
Sep14/14	Nov1/16	Sep14/17.	0ct9/18	Dec31/19	Jul14/20	Jun15/22	Jan30/23	1,920 - 480 - 120					+20 +18 +16 +14
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	n-ferrou	ıs Me	tals					480 -	1				-16
4	coppe	er ]			7			120-	1				-14
1200000	eeeeeee lead	J	^		-1			图 30+		1			-12
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Sep14/14	Nov1/16	Sep14/17	0ct9/18	Dec31/19	Jul14/20	Jun15/22	Jan30/23	2+			1	\	+0
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									id Numb	er			
Abile	ormal							¥ 1.5	$\Lambda$	1	~	~	J 10
1		-						E 1.0					$\sim$
Base		/						Acid Number (mg KOH/g)					
Abno								0.0 Acid					
4/14	11/16	4/17	t9/18	31/19	4/20	5/22	30/23	4/14	91/16	14/17	81/19	4/20	30/23





Certificate L2367

Laboratory Test Package : CONST

Sample No. Lab Number Unique Number : 10728803

cSt (40°C)

: WC0821773 : 06000443

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Nov 2023 Diagnosed

: 09 Nov 2023 Diagnostician : Jonathan Hester

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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