

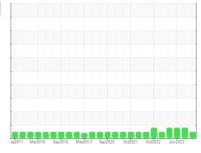
OIL ANALYSIS REPORT



KANSAS/44/TR - MOTOR GRADER 78.69 [KANSAS^44^TR - MOTOR GRADER]

Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)



Sample Rating Trend

NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

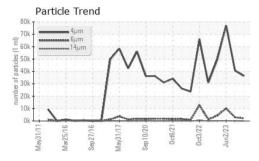
Fluid Condition

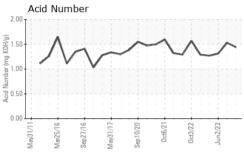
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

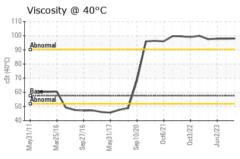
AST 30 (GAL)	'	ay2011 Mar2	016 Sep2016 May2017	Sep2020 Oct2021 Oct2022	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0918399	WC0821601	WC0781260
Sample Date		Client Info		09 May 2024	18 Oct 2023	02 Jun 2023
Machine Age	hrs	Client Info		11104	11027	10784
Oil Age	hrs	Client Info		4477	6627	6627
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	ATTENTION	ABNORMAL
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	10	11	9
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	5	5	4
Lead	ppm	ASTM D5185m	>10	2	1	1
Copper	ppm	ASTM D5185m	>75	14	15	13
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		28	33	31
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		35	37	35
Calcium	ppm	ASTM D5185m		2783	2741	2910
Phosphorus	ppm	ASTM D5185m		991	994	984
Zinc	ppm	ASTM D5185m		1089	1189	1171
Sulfur	ppm	ASTM D5185m		5974	5650	5319
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	14	12
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	0	3	3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		36339	40618	77062
Particles >6µm		ASTM D7647	>2500	2112	2920	<u></u> 10243
Particles >14μm		ASTM D7647	>640	31	55	219
Particles >21µm		ASTM D7647	>160	9	9	44
Particles >38µm		ASTM D7647	>40	4	0	1
Particles >71µm		ASTM D7647	>10	4	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/16	22/18/12	23/19/13	<u>\$\text{23/21/15}\$</u>
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
A : 1 N	1/011/	ACTM DODAE		4 4 4	1 50	1.01

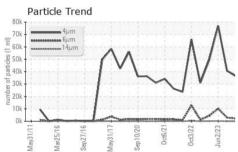


OIL ANALYSIS REPORT









VISUAL		method				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			history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	98.0	97.9	97.9

SAMPLI	E IMAGES	

Color

Bottom



Particle Count

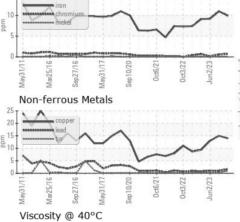
491 520

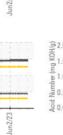


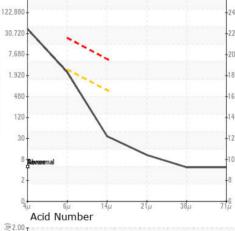


1999 Clea









Number (mg KOH/g) 1.50 1.00 0.50 0.00 G





Certificate 12367

Laboratory Sample No. Lab Number : 06182728 Unique Number : 11034054 Test Package : CONST

: WC0918399

120

100 cSt (40°C) 80

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

: 17 May 2024 : 22 May 2024

Diagnosed : 22 May 2024 - Wes Davis

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213

Contact: TRENTON HAJEK Trenton.hajek@wildcat.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:

F: