



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
KANSAS/44/EG - DOZER
Machine Id
36.21L [KANSAS^44^EG - DOZER]
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0864329	WC0819893	WC0746864
Sample Date		Client Info		10 Apr 2024	09 Nov 2023	12 Jun 2023
Machine Age	hrs	Client Info		8486	7633	7278
Oil Age	hrs	Client Info		4637	3849	3225
Filter Age	hrs	Client Info		500	3849	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	14	27	23
Chromium	ppm	ASTM D5185m	>10	<1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	7	12	10
Lead	ppm	ASTM D5185m	>10	1	2	2
Copper	ppm	ASTM D5185m	>75	6	12	11
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

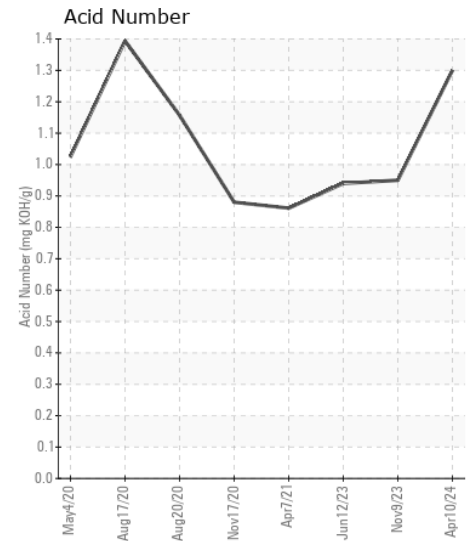
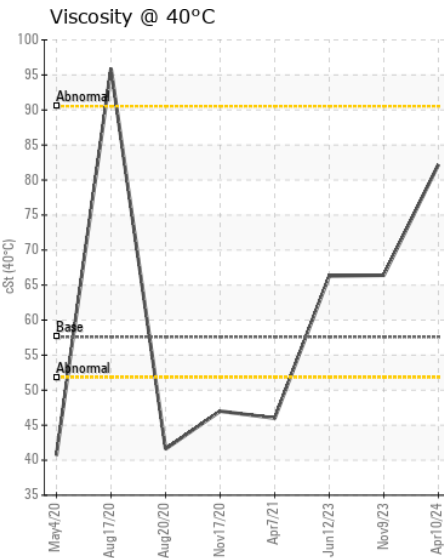
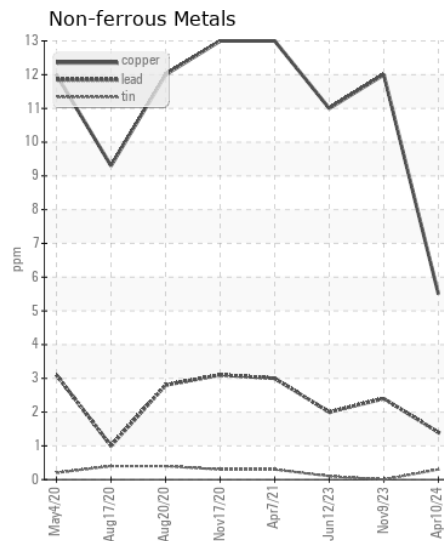
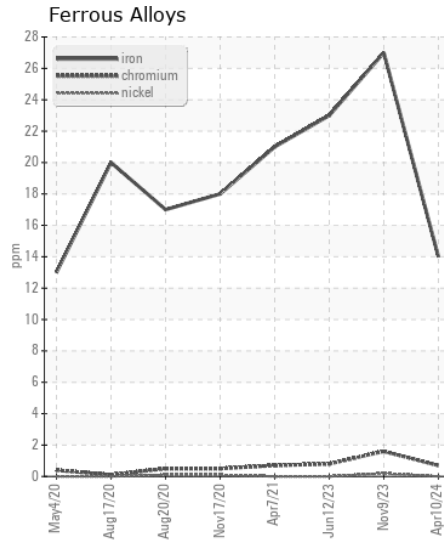
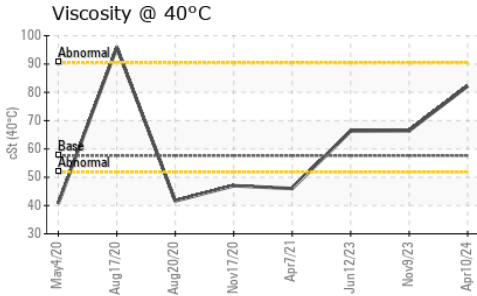
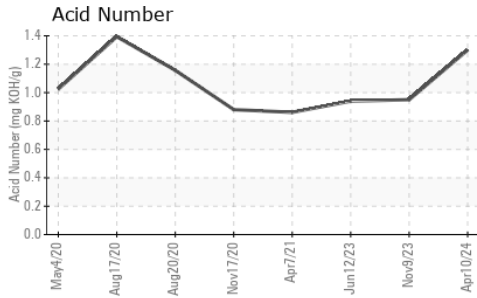
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>20	18	31	26
Potassium	ppm	ASTM D5185m	>20	1	5	5
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		---	25696	13680
Particles >6µm		ASTM D7647	>2500	---	461	874
Particles >14µm		ASTM D7647	>640	---	11	59
Particles >21µm		ASTM D7647	>160	---	3	16
Particles >38µm		ASTM D7647	>40	---	0	1
Particles >71µm		ASTM D7647	>10	---	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	---	22/16/11	21/17/13
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
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	2	0
Boron	ppm	ASTM D5185m		20	15	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		14	13	11
Calcium	ppm	ASTM D5185m		2358	1850	1825
Phosphorus	ppm	ASTM D5185m		875	964	871
Zinc	ppm	ASTM D5185m		1096	1140	1089
Sulfur	ppm	ASTM D5185m		4598	3087	3746
Acid Number (AN)	mg KOH/g	ASTM D8045		1.30	0.95	0.94
Visc @ 40°C	cSt	ASTM D445	57.6	82.2	66.4	66.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0864329
Lab Number : 06155838
Unique Number : 10991261
Test Package : CONST

Received : 22 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Don Baldrige

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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)