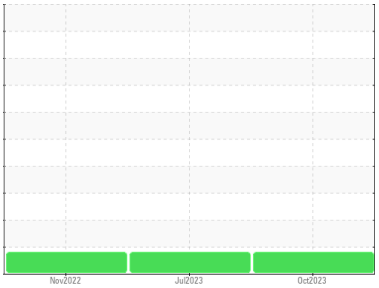
PROBLEM SUMMARY

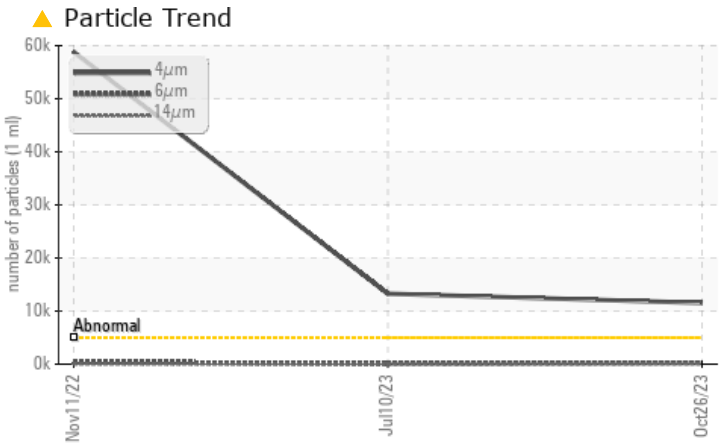
Sample Rating Trend



ISO

Machine Id
AF12-110-2125-0000 EAST TRUCK DUMP HYDRAULIC UNIT
Component
Hydraulic System
Fluid
MOBIL DTE 10 EXCEL 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	▲ **11529**	▲ 13268	▲ 58806
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/15/11**	▲ 21/13/9	▲ 23/16/10

Customer Id: ARAGRAUS
Sample No.: WC0862254
Lab Number: 05996690
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

10 Jul 2023 Diag: Doug Bogart

ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

11 Nov 2022 Diag: Angela Borella

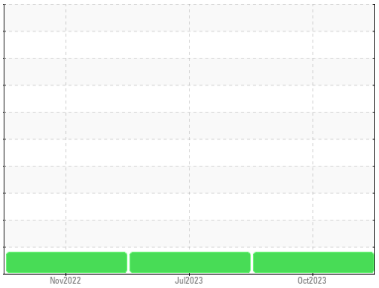
ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
AF12-110-2125-0000 EAST TRUCK DUMP HYDRAULIC UNIT
Component
Hydraulic System
Fluid
MOBIL DTE 10 EXCEL 46 (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0862254**	WC0818989	WC0761373
Sample Date		Client Info		**26 Oct 2023**	10 Jul 2023	11 Nov 2022
Machine Age	yrs	Client Info		**4**	0	4
Oil Age	yrs	Client Info		**4**	0	4
Oil Changed		Client Info		**N/A**	Filtered	Filtered
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**4**	17	7
Iron	ppm	ASTM D5185m	>20	**23**	26	27
Chromium	ppm	ASTM D5185m	>20	**3**	3	2
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	<1	<1
Lead	ppm	ASTM D5185m	>20	**<1**	<1	0
Copper	ppm	ASTM D5185m	>20	**4**	4	3
Tin	ppm	ASTM D5185m	>20	**0**	<1	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		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**112**	113	142
Phosphorus	ppm	ASTM D5185m		**384**	450	447
Zinc	ppm	ASTM D5185m		**14**	18	24
Sulfur	ppm	ASTM D5185m		**1567**	1658	1895

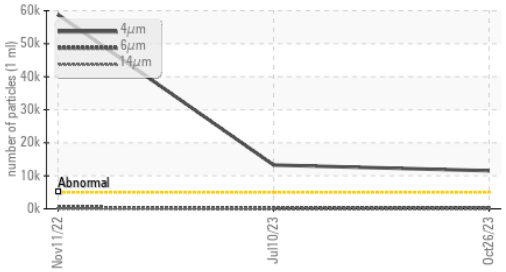
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**1**	1	1
Sodium	ppm	ASTM D5185m		**2**	8	12
Potassium	ppm	ASTM D5185m	>20	**2**	1	0
Water	%	ASTM D6304	>0.05	**0.006**	0.008	0.008
ppm Water	ppm	ASTM D6304	>500	**62.9**	80.7	85.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **11529**	▲ 13268	▲ 58806
Particles >6µm		ASTM D7647	>1300	**248**	61	431
Particles >14µm		ASTM D7647	>160	**14**	4	5
Particles >21µm		ASTM D7647	>40	**6**	2	2
Particles >38µm		ASTM D7647	>10	**1**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/15/11**	▲ 21/13/9	▲ 23/16/10

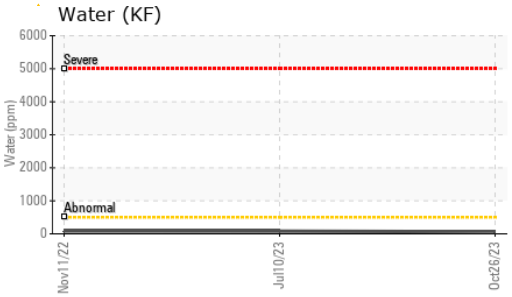
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.113**	0.139	0.08

OIL ANALYSIS REPORT

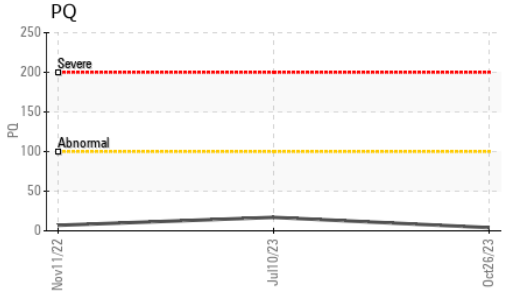
Particle Trend



Water (KF)



PQ



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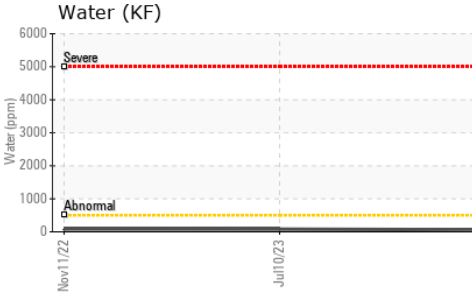
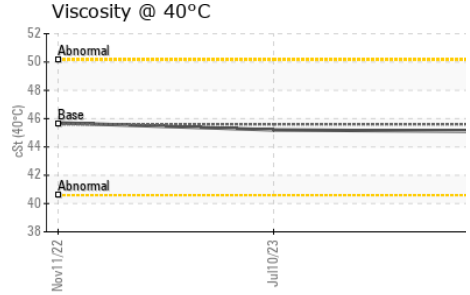
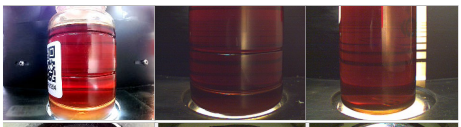
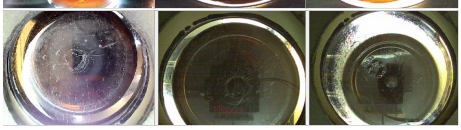


Viscosity @ 40°C



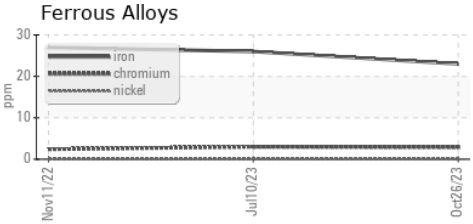
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	**45.1**	45.2	45.7

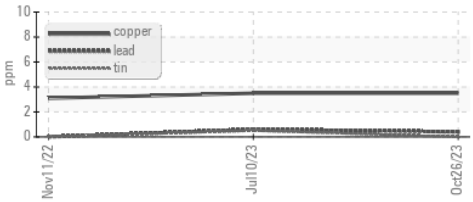
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

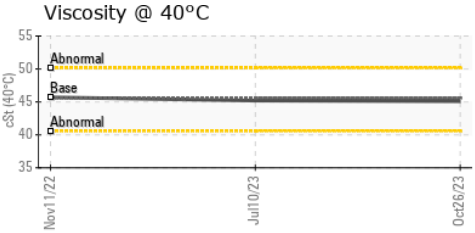
Ferrous Alloys



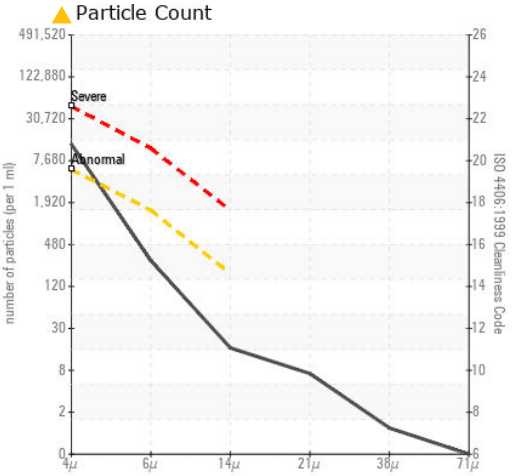
Non-ferrous Metals



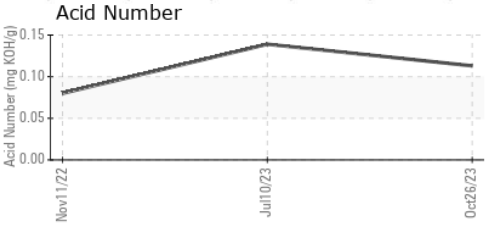
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0862254
Lab Number : 05996690
Unique Number : 10725050
Test Package : PLANT

Received : 02 Nov 2023
Diagnosed : 04 Nov 2023
Diagnostician : Don Baldridge

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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