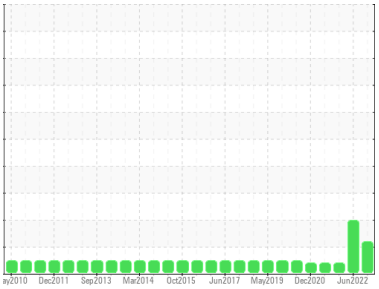
PROBLEM SUMMARY

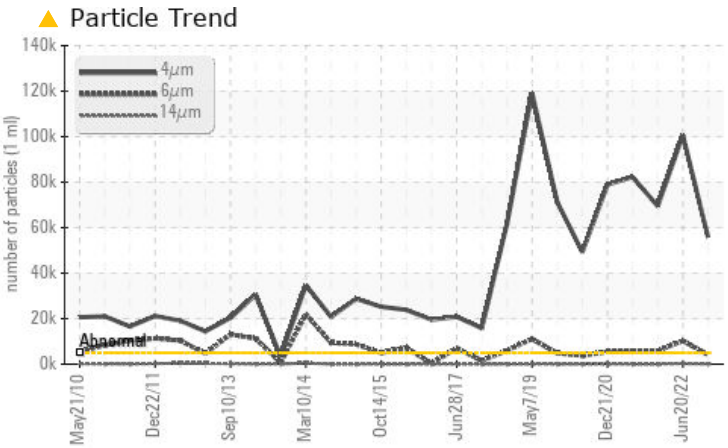
Sample Rating Trend



ISO

Area
MILL
Machine Id
200.1125 DRY TRUCK DUMP
Component
Hydraulic System
Fluid
MOBIL DTE 25 (300 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	▲ **55931**	▲ 100591	69479
Particles >6µm		ASTM D7647	>1300	▲ **4160**	▲ 10245	5840
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **23/19/13**	▲ 24/21/15	23/20/12

Customer Id: ARABEN
Sample No.: WC0739411
Lab Number: 05734930
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

20 Jun 2022 Diag: Jonathan Hester

ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

21 Dec 2021 Diag: Wes Davis

VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

view report

21 Jun 2021 Diag: Wes Davis

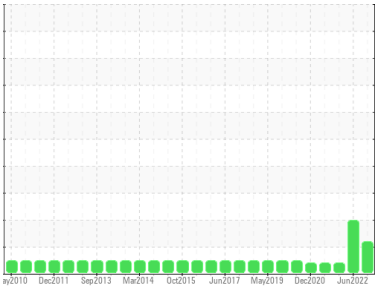
VISCOSITY

Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
MILL
Machine Id
200.1125 DRY TRUCK DUMP
Component
Hydraulic System
Fluid
MOBIL DTE 25 (300 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 < 14 microns in size) present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0739411**	WC0701285	WC62387070
Sample Date		Client Info		**15 Dec 2022**	20 Jun 2022	21 Dec 2021
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**12**	---	1
Iron	ppm	ASTM D5185m	>20	**7**	9	8
Chromium	ppm	ASTM D5185m	>20	**5**	5	5
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	0
Lead	ppm	ASTM D5185m	>20	**7**	8	7
Copper	ppm	ASTM D5185m	>20	**43**	36	40
Tin	ppm	ASTM D5185m	>20	**2**	2	2
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	0
Barium	ppm	ASTM D5185m		**0**	1	1
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**2**	2	2
Calcium	ppm	ASTM D5185m		**110**	119	128
Phosphorus	ppm	ASTM D5185m		**453**	469	555
Zinc	ppm	ASTM D5185m		**619**	696	731
Sulfur	ppm	ASTM D5185m		**4830**	5654	---

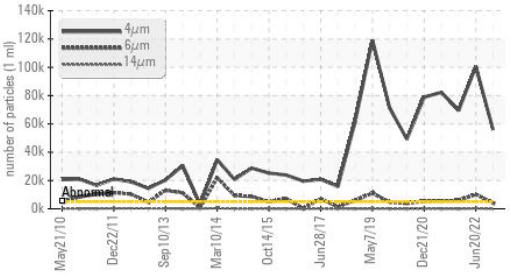
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	4	4
Sodium	ppm	ASTM D5185m		**0**	4	4
Potassium	ppm	ASTM D5185m	>20	**4**	4	3
Water	%	ASTM D6304	>0.05	**0.023**	---	0.01
ppm Water	ppm	ASTM D6304	>500	**232.6**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **55931**	▲ 100591	69479
Particles >6µm		ASTM D7647	>1300	▲ **4160**	▲ 10245	5840
Particles >14µm		ASTM D7647	>160	**44**	▲ 271	33
Particles >21µm		ASTM D7647	>40	**15**	▲ 58	---
Particles >38µm		ASTM D7647	>10	**1**	5	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **23/19/13**	▲ 24/21/15	23/20/12

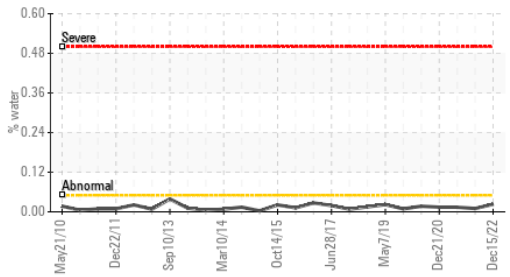
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.85**	1.11	---

OIL ANALYSIS REPORT

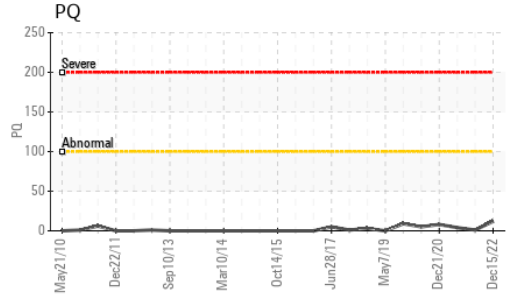
Particle Trend



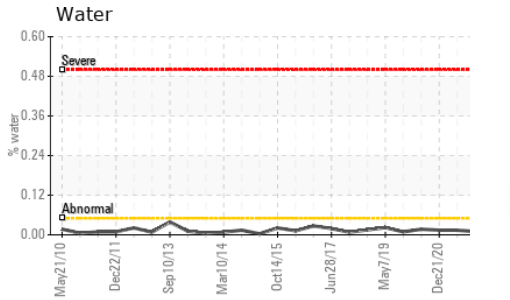
Water



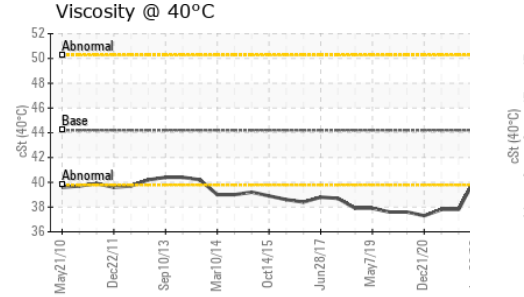
PQ



Water

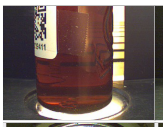
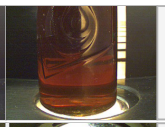
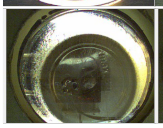


Viscosity @ 40°C



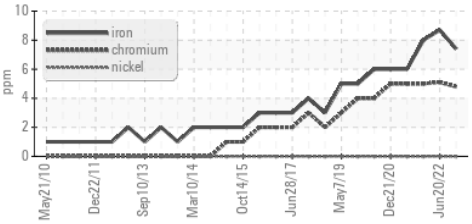
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.2	**37.0**	40.4	▲ 37.8

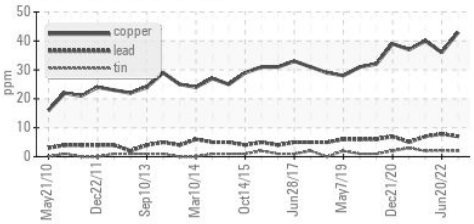
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

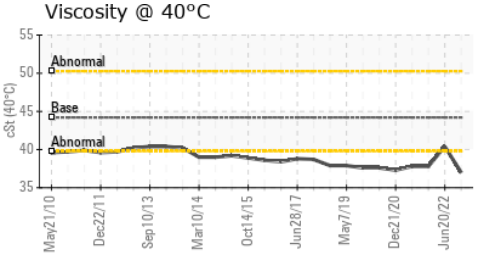
Ferrous Alloys



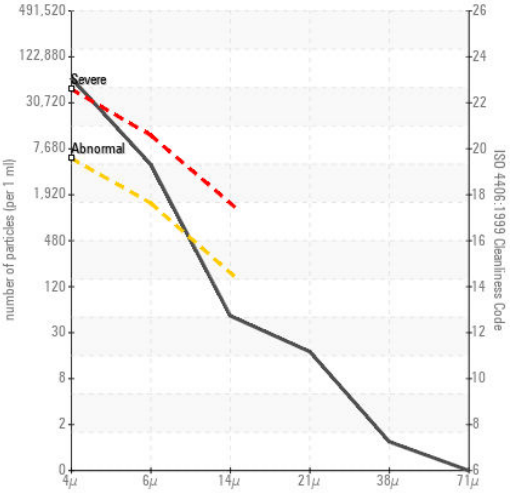
Non-ferrous Metals



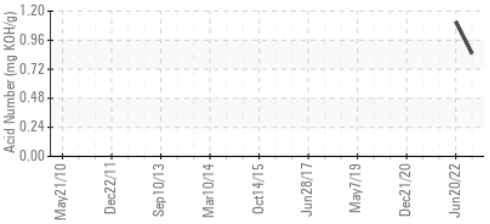
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0739411 **Received** : 10 Jan 2023
Lab Number : 05734930 **Diagnosed** : 11 Jan 2023
Unique Number : 10284528 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PQ)

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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