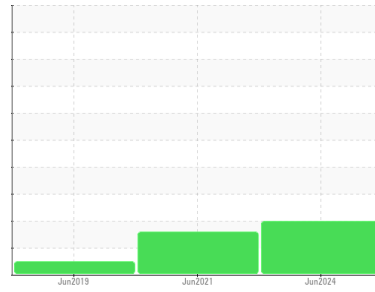




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
CINN 500 EAST
 Component
Hydraulic System
 Fluid
MOBIL DTE 24 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	WCI007423	WCI007377	WCI007416
Sample Date	Client Info	01 Jun 2024	22 Jun 2021	19 Jun 2019
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	15	---	---
Iron	ppm ASTM D5185m >20	2	1	<1
Chromium	ppm ASTM D5185m >10	<1	0	0
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	2	0	<1
Lead	ppm ASTM D5185m >10	<1	<1	<1
Copper	ppm ASTM D5185m >75	1	<1	<1
Tin	ppm ASTM D5185m >10	<1	0	0
Antimony	ppm ASTM D5185m	---	0	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	<1	0
Barium	ppm ASTM D5185m	<1	0	0
Molybdenum	ppm ASTM D5185m	<1	0	0
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m	1	1	1
Calcium	ppm ASTM D5185m	103	131	130
Phosphorus	ppm ASTM D5185m	404	462	479
Zinc	ppm ASTM D5185m	642	690	668
Sulfur	ppm ASTM D5185m	3830	4706	4749

CONTAMINANTS

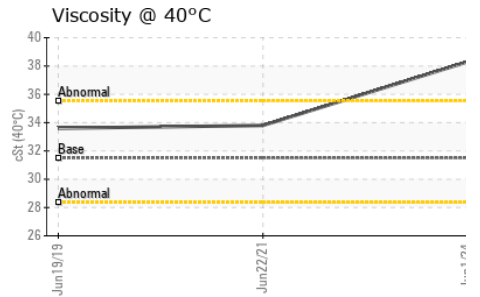
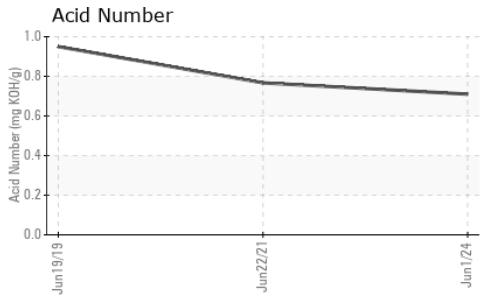
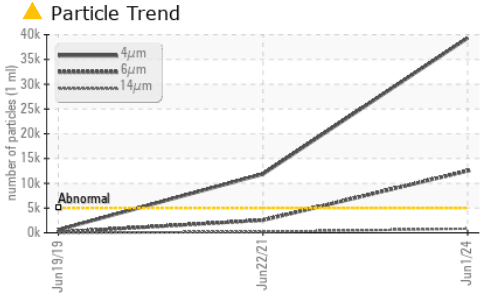
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	1	<1	1
Sodium	ppm ASTM D5185m	0	<1	<1
Potassium	ppm ASTM D5185m >20	1	<1	1

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 39321	▲ 11857	605
Particles >6µm	ASTM D7647 >1300	▲ 12515	▲ 2542	122
Particles >14µm	ASTM D7647 >160	▲ 835	▲ 186	8
Particles >21µm	ASTM D7647 >40	▲ 157	▲ 51	3
Particles >38µm	ASTM D7647 >10	6	1	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/21/17	▲ 21/19/15	16/14/10



OIL ANALYSIS REPORT

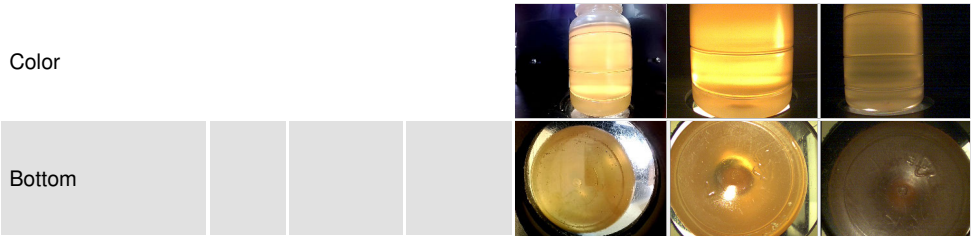


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.767	0.950

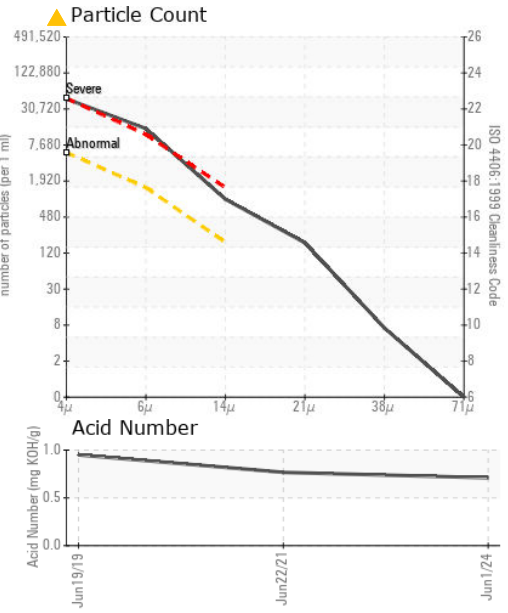
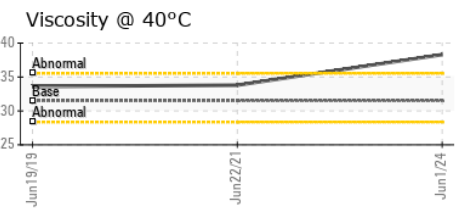
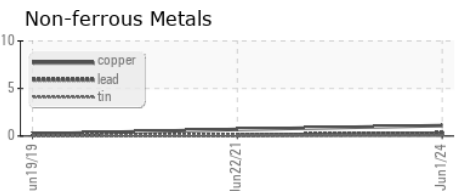
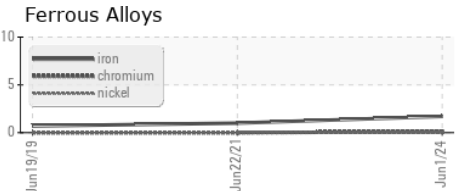
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	38.3	33.8	33.6

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC1007423 **Received** : 06 Jun 2024
Lab Number : **06201440** **Tested** : 07 Jun 2024
Unique Number : 11063563 **Diagnosed** : 09 Jun 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: PQ)

DEERE - HITACHI
 1000 DEERE-HITACHI RD
 KERNERSVILLE, NC
 US 27284
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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)