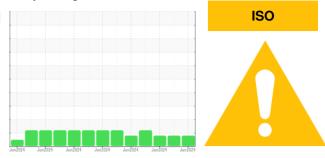


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



history1

current

history2

Machine Id QC240601HY

Component Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- 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.

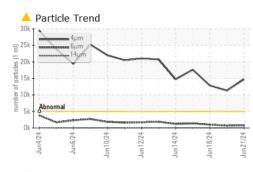
Fluid Condition

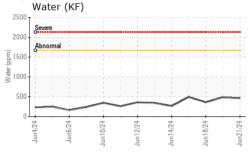
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

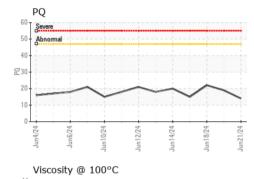
SAMELE INFORM		method	iinii/base	current	nistory i	nistory2
Sample Number		Client Info		WC0952779	WC0952778	WC0952776
Sample Date		Client Info		21 Jun 2024	20 Jun 2024	18 Jun 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	14	19	22
Iron	ppm	ASTM D5185m	>78	30	22	27
Chromium	ppm	ASTM D5185m	>2	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	3	2	2
Lead	ppm	ASTM D5185m	>11	1	<1	<1
Copper	ppm	ASTM D5185m	>84	16	12	14
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	3	2	2
Barium	ppm	ASTM D5185m	0	1	0	<1
Nolybdenum	ppm	ASTM D5185m	0	1	0	<1
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m	145	101	92	88
Calcium	ppm	ASTM D5185m	3570	3868	3363	3306
Phosphorus	ppm	ASTM D5185m	1290	1195	1083	918
Zinc	ppm	ASTM D5185m	1640	1394	1238	1201
Sulfur	ppm	ASTM D5185m		4275	4092	3636
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	17	17	15
Sodium	ppm	ASTM D5185m	>23	8	10	7
Potassium	ppm	ASTM D5185m	>20	4	4	3
Water	%	ASTM D6304	>0.1669	0.046	0.048	0.035
opm Water	ppm	ASTM D6304	>1669	462	486	360
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	🔺 14746	🔺 11316	12866
Particles >6µm		ASTM D7647	>1300	810	705	1009
Particles >14µm		ASTM D7647	>160	9	6	4
Particles >21μm		ASTM D7647	>40	2	1	1
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/17/10	▲ 21/17/10	1 /17/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :52:47) Rev: 1	mg KOH/g	ASTM D8045	1.8	1.34	1.19	1.45 Submitted By:

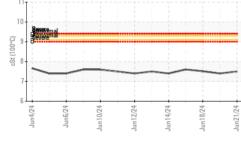


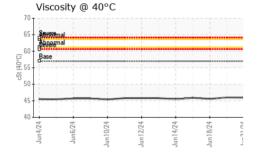
OIL ANALYSIS REPORT











Certificate L2367
To discuss
* - Denotes
Statamonto

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	>0.1669	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	45.9	46.0	45.58
Visc @ 100°C	cSt	ASTM D445	9.4	7.5	7.4	7.51
Viscosity Index (VI)	Scale	ASTM D2270	147	128	124	130
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				o.	a.	a.

Bottom

40

30

0

20

15

70

() 60

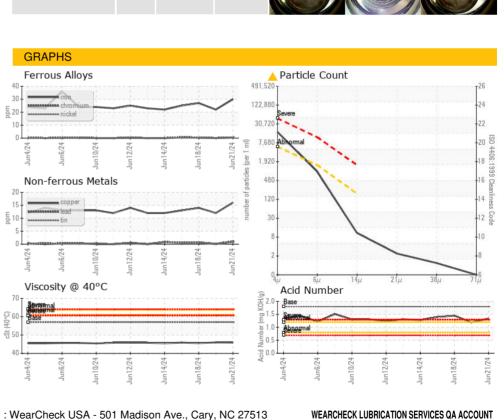
Laboratory

Sample No.

Lab Number : 06216854

Unique Number : 11089718

E 20



: 21 Jun 2024

: 24 Jun 2024

WEARCHECK LUBRICATION SERVICES QA ACCOUNT 501 Madison Ave Cary, NC : 24 Jun 2024 - Jonathan Hester US 27513 Contact: WCLS CARY NC

: WC0952779

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

Received

Diagnosed

Tested

Report Id: WEACARQA [WUSCAR] 06216854 (Generated: 06/24/2024 17:52:47) Rev: 1

T: (919)379-4102

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.