

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

QC240601HY

Component Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

DIAGNOSIS

A 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.

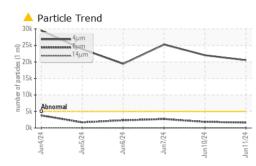
Fluid Condition

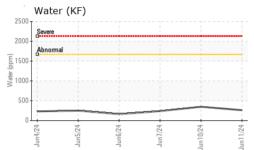
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

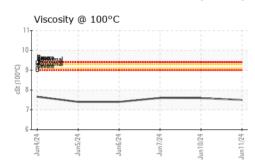
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06206496	WC06204575	WC06202693
Sample Date		Client Info		11 Jun 2024	10 Jun 2024	07 Jun 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	18	15	21
Iron	ppm	ASTM D5185m		23	24	24
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum		ASTM D5185m	>5	1	2	2
	ppm			-		
Lead	ppm	ASTM D5185m		0	0	<1 13
Copper	ppm	ASTM D5185m	>84	12		
Tin	ppm	ASTM D5185m	>4	0	<1	<1
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	6	0	1	2
Barium	ppm	ASTM D5185m	0	<1	1	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	145	84	90	87
Calcium	ppm	ASTM D5185m	3570	3144	3312	3333
Phosphorus	ppm	ASTM D5185m	1290	964	1005	1040
Zinc	ppm	ASTM D5185m	1640	1121	1226	1243
Sulfur	ppm	ASTM D5185m		3682	3955	4108
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	14	15	14
Sodium	ppm	ASTM D5185m	>23	9	10	6
Potassium	ppm		>20	9 <1	3	2
Water	%	ASTM D518511	>0.1669	0.026	0.034	0.023
ppm Water	⁷ o	ASTM D0304 ASTM D6304			348	239
	DDIII			060		233
			>1669	263	040	
FLUID CLEANLIN		method	>1669 limit/base	263 current	history1	history2
FLUID CLEANLIN Particles >4µm				current	history1 ▲ 22025	▲ 25248
FLUID CLEANLIN Particles >4μm Particles >6μm		method ASTM D7647 ASTM D7647	limit/base >5000 >1300	current	history1 ▲ 22025 ▲ 1841 	▲ 25248▲ 2704
FLUID CLEANLIN Particles >4μm Particles >6μm		method ASTM D7647	limit/base >5000 >1300	current ▲ 20522 ▲ 1621 8	history1 ▲ 22025 ▲ 1841 18	▲ 25248
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm		method ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160	current ▲ 20522 ▲ 1621	history1 ▲ 22025 ▲ 1841 	▲ 25248▲ 2704
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm		method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40	current ▲ 20522 ▲ 1621 8	history1 ▲ 22025 ▲ 1841 18 	 25248 2704 23
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40 >10	current ▲ 20522 ▲ 1621 8 2	history1	 25248 2704 23 4
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40 >10	current ▲ 20522 ▲ 1621 8 2 0	history1 ▲ 22025 ▲ 1841 18 8 1	 25248 2704 23 4 0
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm	JESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >5000 >1300 >160 >40 >10 >3	current ▲ 20522 ▲ 1621 8 2 0 0	history1 ▲ 22025 ▲ 1841 18 8 1 0	 25248 2704 23 4 0 0
FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	JESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	limit/base >5000 >1300 >160 >40 >10 >3 >3 >19/17/14	current ▲ 20522 ▲ 1621 8 2 0 0 22/18/10	history1 ▲ 22025 ▲ 1841 18 8 1 0 ▲ 22/18/11	 25248 2704 23 4 0 0 22/19/12

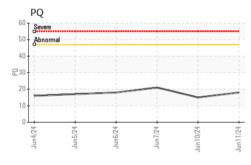


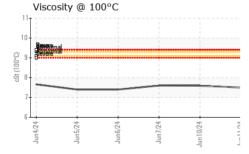
OIL ANALYSIS REPORT







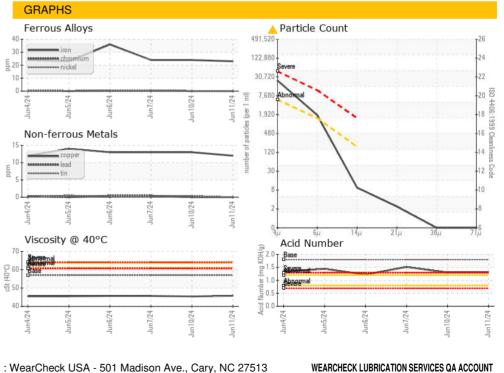




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	45.8	45.4	45.7
Visc @ 100°C	cSt	ASTM D445	9.4	7.5	7.59	7.6
Viscosity Index (VI)	Scale	ASTM D2270	147	128	134	133
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				· ·		

Bottom





: 11 Jun 2024

: 18 Jun 2024



Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI) Certificate 12367 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.

: WC06206496

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

Received

Diagnosed

Tested

Report Id: WEACARQA [WUSCAR] 06206496 (Generated: 06/22/2024 19:39:50) Rev: 1

Laboratory

Sample No.

Lab Number : 06206496

Unique Number : 11073957

T: (919)379-4102

Submitted By: ? Page 2 of 2