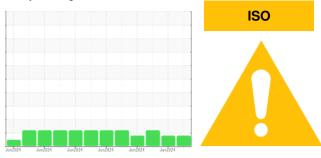


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

QC240601HY

Component Hydraulic System Fluid

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 < 6 microns in size) present in the oil.

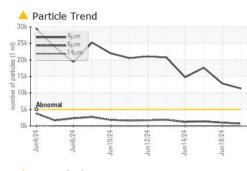
Fluid Condition

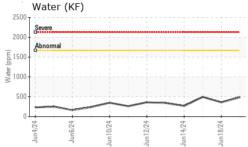
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

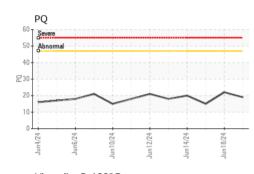
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0952778	WC0952776	WC0952775
Sample Date		Client Info		20 Jun 2024	18 Jun 2024	17 Jun 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	19	22	15
Iron	ppm	ASTM D5185m	>78	22	27	25
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	2	2	2
Lead	ppm	ASTM D5185m	>11	<1	<1	<1
Copper	ppm	ASTM D5185m	>84	12	14	13
Tin	ppm	ASTM D5185m		0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	6	2	2	3
	ppm		0	0	<1	0
Barium	ppm					
Molybdenum	ppm	ASTM D5185m	0	0	<1 1	1
Manganese	ppm	ASTM D5185m	4.45	1		
Magnesium	ppm	ASTM D5185m	145	92	88	86
Calcium	ppm	ASTM D5185m	3570	3363	3306	3253
Phosphorus	ppm	ASTM D5185m	1290	1083	918	947
Zinc	ppm	ASTM D5185m	1640	1238	1201	1197
Sulfur	ppm	ASTM D5185m		4092	3636	3563
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	17	15	15
Sodium	ppm	ASTM D5185m	>23	10	7	7
Potassium	ppm	ASTM D5185m	>20	4	3	2
Water	%	ASTM D6304	>0.1669	0.048	0.035	0.049
ppm Water	ppm	ASTM D6304	>1669	486	360	495
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 11316	1 2866	17644
Particles >6µm		ASTM D7647	>1300	705	1009	1 387
Particles >14µm		ASTM D7647	>160	6	4	23
Particles >21µm		ASTM D7647	>40	1	1	10
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/17/10	1 /17/9	1 /18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 7:30:10) Rev: 1	mg KOH/g	ASTM D8045	1.8	1.19	1.45	1.39 Submitted By: 3

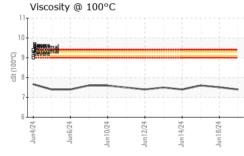


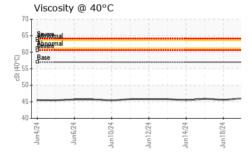
OIL ANALYSIS REPORT











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	46.0	45.58	45.9
Visc @ 100°C	cSt	ASTM D445	9.4	7.4	7.51	7.6
Viscosity Index (VI)	Scale	ASTM D2270	147	124	130	132
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom

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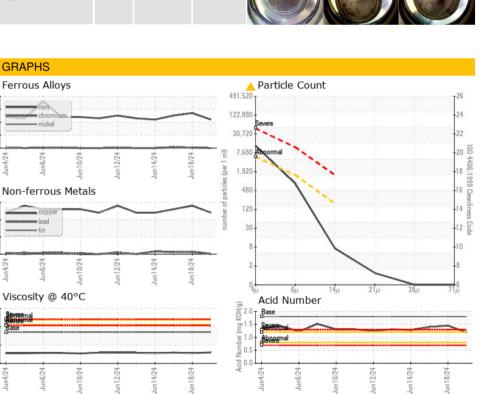
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un4/74

in6/74

un10/24



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 WEARCHECK LUBRICATION SERVICES QA ACCOUNT : WC0952778 Sample No. Received : 20 Jun 2024 501 Madison Ave Lab Number : 06215793 Tested : 21 Jun 2024 Unique Number : 11088657 Diagnosed : 24 Jun 2024 - Jonathan Hester Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI) Contact: WCLS CARY NC 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Jun14/24

T: (919)379-4102 F: (919)379-4050

Jun14/24

Jun 12/24

Report Id: WEACARQA [WUSCAR] 06215793 (Generated: 06/24/2024 17:30:10) Rev: 1

Submitted By: ? Page 2 of 2

Cary, NC

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