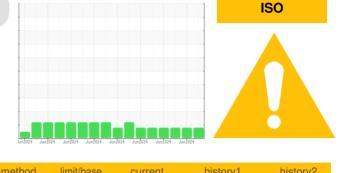


OIL ANALYSIS REPORT

Sample Rating Trend



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.

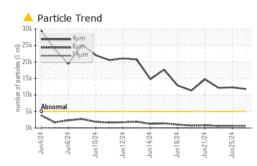
Fluid Condition

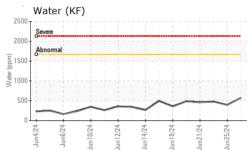
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

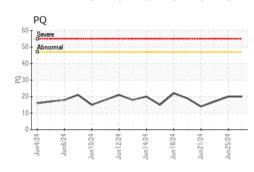
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0952784	WC0952783	WC0952782
Sample Date		Client Info		26 Jun 2024	25 Jun 2024	24 Jun 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	20	20	17
Iron	ppm	ASTM D5185m	>78	23	14	23
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	2	1	2
Lead	ppm	ASTM D5185m	>11	0	0	0
Copper	ppm	ASTM D5185m	>84	13	11	13
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	3	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	145	94	82	90
Calcium	ppm	ASTM D5185m	3570	3358	3193	3328
Phosphorus	ppm	ASTM D5185m	1290	1039	979	1082
Zinc	ppm	ASTM D5185m	1640	1217	1096	1234
Sulfur	ppm	ASTM D5185m		3994	3790	4118
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	14	12	15
Sodium	ppm	ASTM D5185m	>23	8	8	10
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Water	%	ASTM D6304	>0.1669	0.057	0.039	0.047
ppm Water	ppm	ASTM D6304	>1669	574	397	479
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 11795	▲ 12311	12138
Particles >6µm		ASTM D7647	>1300	634	681	612
Particles >14µm		ASTM D7647	>160	14	33	32
Particles >21µm		ASTM D7647	>40	6	14	10
Particles >38µm		ASTM D7647	>10	0	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/16/11	▲ 21/17/12	▲ 21/16/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN) 8:52:42) Rev: 1	mg KOH/g	ASTM D8045	1.8	1.22	1.19	1.92 Submitted By: ?

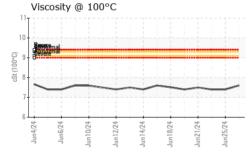


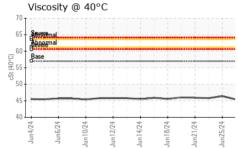
OIL ANALYSIS REPORT







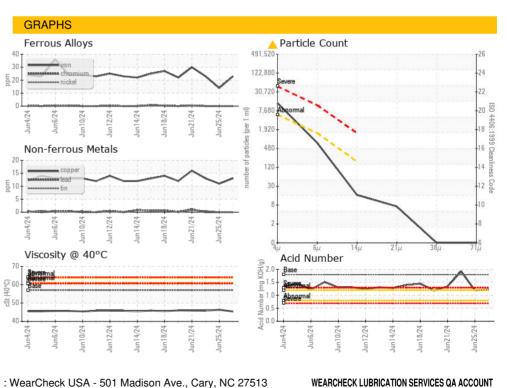






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1669	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	45.4	46.37	45.8
Visc @ 100°C	cSt	ASTM D445	9.4	7.6	7.4	7.4
Viscosity Index (VI)	Scale	ASTM D2270	147	134	122	125
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						a.

Bottom



: 26 Jun 2024

: 27 Jun 2024

WEARCHECK LUBRICATION SERVICES QA ACCOUNT 501 Madison Ave Cary, NC : 28 Jun 2024 - Jonathan Hester US 27513 Contact: WCLS CARY NC

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WC0952784

* - 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)

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

Received

Diagnosed

Tested

Report Id: WEACARQA [WUSCAR] 06221166 (Generated: 06/30/2024 18:52:42) Rev: 1

Laboratory

Sample No.

Lab Number : 06221166

Unique Number : 11099363

T: (919)379-4102

F: (919)379-4050