

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

ISO

history2

history1

2024 Fee2024 Fee2024 Fee2024 Mar2024 Mar2024 Mar2024

current

limit/base

Area	
QC230801HY	
Component	
Hydraulic System	

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

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. 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

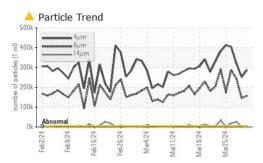
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

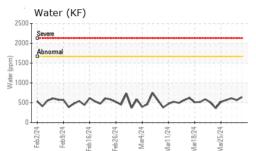
Report Id: WEACARQA [WUSCAR] 06133295 (Generated: 04/05/2024

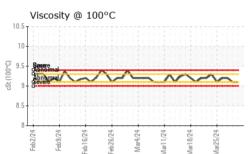
		method	iiiiii/base	Current	Thistory I	Thistory2
Sample Number		Client Info		WC0916256	WC0916255	WC0916254
Sample Date		Client Info		29 Mar 2024	28 Mar 2024	27 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
÷		method	limit/base	ourroat	biotonut	biotory 0
WEAR METALS				current	history1	history2
PQ		ASTM D8184	>47	82	66	76
Iron	ppm	ASTM D5185m		94	74	75
Chromium	ppm	ASTM D5185m	>2	1	<1	<1
Nickel	ppm	ASTM D5185m		2	2	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>5	3	4	3
Lead	ppm	ASTM D5185m		8	9	8
Copper	ppm	ASTM D5185m	>84	80	75	75
Tin	ppm	ASTM D5185m	>4	4	4	2
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	108	93	93
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m	Ū	25	21	20
Magnesium	ppm	ASTM D5185m	145	21	24	16
Calcium	ppm	ASTM D5185m	3570	3231	3449	3413
Phosphorus	ppm	ASTM D5185m	1290	1014	1151	1100
Zinc	ppm	ASTM D5185m	1640	1251	1405	1369
Sulfur	ppm	ASTM D5185m		3131	3762	3713
CONTAMINANTS		method	limit/base			
					history1	history2
Silicon	ppm	ASTM D5185m	>11	11	10	9
Sodium	ppm	ASTM D5185m		19	20	19
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water	%	ASTM D6304		0.064	0.056	0.061
ppm Water	ppm	ASTM D6304	>1669	641	567	614
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 252017	A 321075
Particles >6µm		ASTM D7647	>1300	<u> </u>	146260	🔺 243399
Particles >14µm		ASTM D7647	>160	<u> </u>	🔺 1716	🔺 25847
Particles >21µm		ASTM D7647	>40	20	A 74	<u> </u>
Particles >38µm		ASTM D7647	>10	0	1	1 8
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 25/24/17	▲ 25/24/18	▲ 26/25/22
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.24	0.87	0.92
:34:17) Rev: 1						Submitted By:
						Dece 1 of

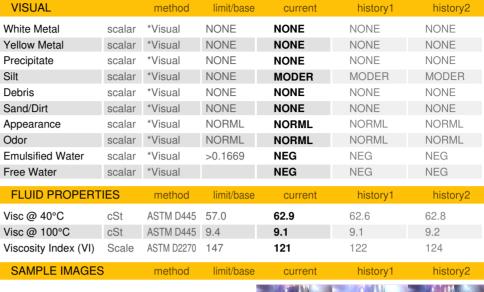


OIL ANALYSIS REPORT









Color

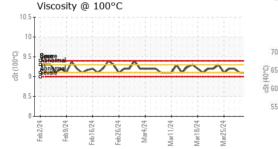
Bottom

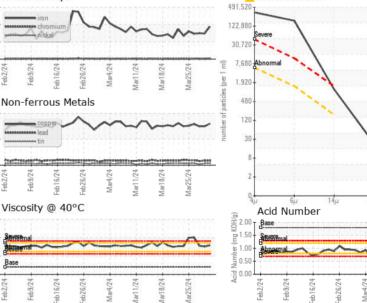
GRAPHS



Particle Count

Ferrous Alloys 150 PQ 140 100 100 8 Feb 16/24 eb2/74 C/by eh76/74 0 4 Non-ferrous Metals 20 100 n ah 76/74 Aar11/24 far18/74 C/Cda C/BHa eh16/7 50 n.





: 29 Mar 2024

: 05 Apr 2024

WEARCHECK LUBRICATION SERVICES QA ACCOUNT 501 Madison Ave Cary, NC : 05 Apr 2024 - Jonathan Hester US 27513 Contact: WCLS CARY NC

Mar18/24

Mar25/24

Mar11/24

214

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.

: WC0916256

:06133295

ch C ha

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Laboratory

Sample No.

Lab Number

Unique Number : 10952760

CICHA

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

Report Id: WEACARQA [WUSCAR] 06133295 (Generated: 04/05/2024 23:34:17) Rev: 1

T: (919)379-4102

F: (919)379-4050

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4406: