

PROBLEM SUMMARY

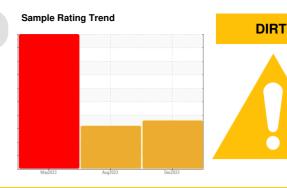
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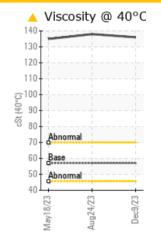
Component

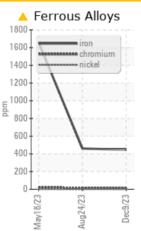
Left Final Drive

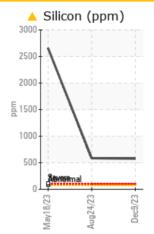
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

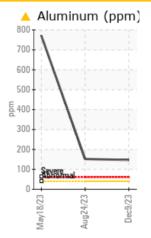


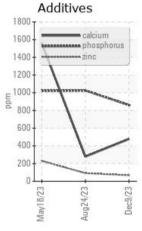
COMPONENT CONDITION SUMMARY











RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROPI EMATIO TEST RESULTS									
PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	SEVERE			
Chromium	ppm	ASTM D5185(m)	>9	<u> </u>	<u> 11</u>	2 5			
Aluminum	ppm	ASTM D5185(m)	>40	147	<u>▲</u> 152	<u></u> 771			
Silicon	ppm	ASTM D5185(m)	>75	△ 574	<u>▲</u> 585	2656			
Visc @ 40°C	cSt	ASTM D7279(m)	57.0	136	138	135			

Customer Id: RONVAU Sample No.: WC0872890 Lab Number: 02603321 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

24 Aug 2023 Diag: Kevin Marson



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium ppm levels are abnormal. Aluminum ppm levels are noted. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



18 May 2023 Diag: Kevin Marson

WEAR



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are severe. Titanium ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

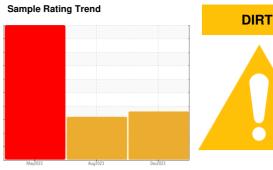
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Component

Left Final Drive

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



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Chromium ppm levels are abnormal. Aluminum ppm levels are noted.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

· · – /		Ma	y2023	Aug2023 Dec20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872890	LH0275299	LH0256630
Sample Date		Client Info		09 Dec 2023	24 Aug 2023	18 May 2023
Machine Age	hrs	Client Info		0	1382	1195
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>750	447	460	1658
Chromium	ppm	ASTM D5185(m)	>9	<u> </u>	<u> 11</u>	2 5
Nickel	ppm	ASTM D5185(m)	>10	1	<1	3
Titanium	ppm	ASTM D5185(m)		8	9	4 7
Silver	ppm	ASTM D5185(m)		<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>40	<u> </u>	<u>▲</u> 152	<u> </u>
Lead	ppm	ASTM D5185(m)	>15	<1	<1	7
Copper	ppm	ASTM D5185(m)	>40	1	1	3
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	2
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	6	149	143	142
Barium	ppm	ASTM D5185(m)	0	2	3	7
Molybdenum	ppm	ASTM D5185(m)	0	<1	1	2
Manganese	ppm	ASTM D5185(m)		7	10	27
Magnesium	ppm	ASTM D5185(m)	145	75	69	339
Calcium	ppm	ASTM D5185(m)	3570	478	279	1560
Phosphorus	ppm	ASTM D5185(m)	1290	861	1025	1021
Zinc	ppm	ASTM D5185(m)	1640	67	91	230
Sulfur	ppm	ASTM D5185(m)		16222	16552	15615
Lithium	ppm	ASTM D5185(m)		<1	<1	2
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	<u></u> 574	<u></u> 585	2656
Sodium	ppm	ASTM D5185(m)	>51	27	27	131
Potassium	ppm	ASTM D5185(m)	>20	50	56	300



OIL ANALYSIS REPORT

