

PROBLEM SUMMARY

Area ORIN CONTRACTORS Machine Id 881 Component

Right Final Drive

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- GAL)

COMPONENT CONDITION SUMMARY







Sample Rating Trend



DIRT

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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Chromium	ppm	ASTM D5185(m)	>9	<u> </u>	1 3	1 5		
Aluminum	ppm	ASTM D5185(m)	>40	A 105	1 57	<u> </u>		
Silicon	ppm	ASTM D5185(m)	>75	🔺 447	6 02	9 03		

Customer Id: RONVAU Sample No.: WC0872891 Lab Number: 02603322 Test Package: MOBCE



To manage this report scan the QR code

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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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.Chromium and iron 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 (AI) 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



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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.Chromium and iron and 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 (AI) indicate aluminasilicate (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

Area ORIN CONTRACTORS Machine Id 881

Right Final Drive

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- 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

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0872891	LH0275300	LH0256632
Sample Date		Client Info		09 Dec 2023	24 Aug 2023	18 May 2023
Machine Age	hrs	Client Info		0	1382	1145
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	583	A 790	A 769
Chromium	ppm	ASTM D5185(m)	>9	<u> </u>	<u> </u>	1 5
Nickel	ppm	ASTM D5185(m)	>10	1	<1	2
Titanium	ppm	ASTM D5185(m)		7	10	1 6
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<u> </u>	1 57	<u> </u>
Lead	ppm	ASTM D5185(m)	>15	<1	<1	5
Copper	ppm	ASTM D5185(m)	>40	1	1	2
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	<1
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)		188	168	64
Barium	ppm	ASTM D5185(m)		1	3	3
Molybdenum	ppm	ASTM D5185(m)		<1	1	1
Manganese	ppm	ASTM D5185(m)		8	11	16
Magnesium	ppm	ASTM D5185(m)		42	58	98
Calcium	ppm	ASTM D5185(m)		151	179	337
Phosphorus	ppm	ASTM D5185(m)		961	999	861
Zinc	ppm	ASTM D5185(m)		73	106	248
Sulfur	ppm	ASTM D5185(m)		16793	16382	15138
Lithium	ppm	ASTM D5185(m)		<1	<1	1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	4 47	▲ 602	9 03
Sodium	ppm	ASTM D5185(m)	>51	18	23	38
Potassium	ppm	ASTM D5185(m)	>20	35	54	89



OIL ANALYSIS REPORT



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