

PROBLEM SUMMARY

ORIN CONTRACTORS

Component Hydraulic System

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

COMPONENT CONDITION SUMMARY







VISCOSITY

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

PROBLEMATIC 1	FEST RE	ESULTS				
Sample Status				ABNORMAL	ABNORMAL	
Visc @ 40°C	cSt	ASTM D7279(m)	57.0	A 38.5	428	

Sample Rating Trend

Customer Id: RONVAU Sample No.: WC0872895 Lab Number: 02603255 Test Package: MOBCE



To manage this report scan the QR code

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

RECOMMENDED ACTIONS				
Action	Status	Date	Done By	Description
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

24 Jun 2023 Diag: Kevin Marson

VISCOSITY



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

SAMPLE INFORMATION

Area ORIN CONTRACTORS Machine Id 878 Component

Hydraulic System

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

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

An increase in the iron level is noted. All other component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	Jun2023	Dec2023			
method	limit/base	current	history1	history2	2
Client Info		WC0872895	LH0256900		

VISCOSITY

Sample Rating Trend

Sample Number		Client Info		WC0872895	LH0256900	
Sample Date		Client Info		09 Dec 2023	24 Jun 2023	
Machine Age	hrs	Client Info		0	1033	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>20	25	18	
Chromium	ppm	ASTM D5185(m)	>10	0	<1	
Nickel	ppm	ASTM D5185(m)	>10	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>10	1	<1	
Lead	ppm	ASTM D5185(m)	>10	1	1	
Copper	ppm	ASTM D5185(m)	>75	13	11	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	6	1	<1	
Barium	ppm	ASTM D5185(m)	0	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)	145	5	3	
Calcium	ppm	ASTM D5185(m)	3570	90	84	
Phosphorus	ppm	ASTM D5185(m)	1290	609	653	
Zinc	ppm	ASTM D5185(m)	1640	822	810	
Sulfur	ppm	ASTM D5185(m)		1613	1553	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	2	
Sodium	ppm	ASTM D5185(m)		2	1	
Potassium	ppm	ASTM D5185(m)	>20	<1	1	



OIL ANALYSIS REPORT







Particles >4µmASTM D7647>500032991089Particles >6µmASTM D7647>1300975294Particles >14µmASTM D7647>1602918Particles >21µmASTM D7647>4045Particles >21µmASTM D7647>4045Particles >38µmASTM D7647>3020Particles >71µmASTM D7647>320Oil CleanlinessISO 4406 (c)>19/17/1419/17/1217/15/11FLUID DEGRADATIONmethodlimit/basecurrenthistory1hitAcid Number (AN)mg KOHgASTM D974*1.80.87VISUALmethodlimit/basecurrenthistory1hitWhite MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONESiltscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLNORMLOdorscalarVisual*NORMLNORMLNORMLVisi @ 40°CcStASTM D7279(m)57.0 38.5 42.8SAMPLE IMAGESmethodlimit/basecurrenthistory1hit	
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