

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 10-21

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

Chromium ppm levels are marginal. 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 SAE 75W80 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Jul2023	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0076088	PC0061425	
Sample Number		Client Info		08 May 2024	13 Jul 2023	
Machine Age	hrs	Client Info		4000	2825	
Oil Age	hrs	Client Info		0	2825	
Oil Changed	1115	Client Info		Not Changd	Not Changd	
Sample Status		Ciletit iiiio		ABNORMAL	ABNORMAL	
	ONI		11 11 /1			
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water	_	WC Method	>0.1	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	6	4	
Chromium	ppm	ASTM D5185(m)	>10	<u> </u>	7	
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	0	<1	
Copper	ppm	ASTM D5185(m)	>75	2	1	
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	8	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	<1	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		8	6	
Calcium	ppm	ASTM D5185(m)	87	489	562	
Phosphorus	ppm	AOTM DEADE()				
	PP	ASTM D5185(m)	727	674	734	
Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	727 900	674 845		
Zinc Sulfur	• •	. ,			734	
	ppm	ASTM D5185(m)	900	845	734 863	
Sulfur	ppm ppm	ASTM D5185(m) ASTM D5185(m)	900	845 1670	734 863 1715	
Sulfur Lithium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	900 1500	845 1670 <1	734 863 1715 <1	
Sulfur Lithium CONTAMINAN	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	900 1500 limit/base	845 1670 <1 current	734 863 1715 <1 history1	
Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm TS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m)	900 1500 limit/base	845 1670 <1 current	734 863 1715 <1 history1	 history2
Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	900 1500 limit/base >20	845 1670 <1 current <1	734 863 1715 <1 history1 2	 history2
Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	900 1500 limit/base >20 >20	845 1670 <1 current <1 4	734 863 1715 <1 history1 2 2 2	 history2
Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method	900 1500 limit/base >20 >20 limit/base	845 1670 <1 current <1 4 4 current	734 863 1715 <1 history1 2 2 5 history1	history2 history2
Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m)	900 1500 limit/base >20 >20 limit/base >5000	845 1670 <1 current <1 4 4 current 4951	734 863 1715 <1 history1 2 2 2 5 history1 8640	history2 history2 history2
Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	900 1500 limit/base >20 >20 limit/base >5000 >1300	845 1670 <1 current <1 4 4 current 4951 689	734 863 1715 <1 history1 2 2 2 5 history1 8640 132	history2 history2 history2
Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	900 1500 limit/base >20 >20 limit/base >5000 >1300 >160	845 1670 <1 current <1 4 4 current 4951 689 32	734 863 1715 <1 history1 2 2 2 5 history1 8640 132 12	history2 history2
Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm TS ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	900 1500 limit/base >20 >20 limit/base >5000 >1300 >160 >40	845 1670 <1	734 863 1715 <1 history1 2 2 5 history1 8640 132 12 6	history2 history2



OIL ANALYSIS REPORT





ISO 17025:2017
Accredited
Laboratory

Laboratory : WearChed Sample No. : PC007608 Lab Number : 02647822

Unique Number : 5813374

: WearCheck - C8-1175 Appleby Line : PC0076088 Received

 Received
 : 15 Jul 2024

 Tested
 : 16 Jul 2024

 Diagnosed
 : 16 Jul 2024 - Kevin Marson

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2 BERTRAM INDUSTRIAL PKWY.
MIDHURST, ON
CA L9X 1L2
Contact: John Irwin

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

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

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Validity of results and interpretation are based on the sample and information as supplied.

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Contact/Location: John Irwin - EQUMID