

JOHN DEERE 250D 1DW250DXTDE652468

Component Transfer Case

JOHN DEERE HD SynTran (--- GAL)

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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200448	JR0048972	
Sample Date		Client Info		22 Feb 2024	08 Jun 2020	
Machine Age	hrs	Client Info		7964	5972	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
PQ		ASTM D8184		95	156	
Iron	maa	ASTM D5185m	>100	▲ 502	▲ 1008	
Chromium	ppm	ASTM D5185m	>5	4	<u> </u>	
Nickel	ppm	ASTM D5185m	>5	3	8	
Titanium	nnm	ASTM D5185m		د د1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>21	9	11	
Lead	ppm	ASTM D5185m	>50	0	0	
Copper	nnm	ASTM D5185m	>60	▲ 92	183	
Tin	nnm	ASTM D5185m	>5	 ▲ 7	▲ 14	
Vanadium	ppm	ASTM D5185m	20	0	<1	
White Metal	scalar	*Visual	NONE	NONE	MODER	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>11	A 31	0	
Potassium	ppm	ASTM D5185m	>20	2	1	
Water		WC Method	>0.075	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	
Sodium	ppm	ASTM D5185m	>51	2	4	
Boron	ppm	ASTM D5185m	168	136	130	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		4	7	
Magnesium	ppm	ASTM D5185m		7	1	
Calcium	ppm	ASTM D5185m	33	163	51	
Phosphorus	ppm	ASTM D5185m	330	359	341	
Zinc	ppm	ASTM D5185m	0	57	29	
Sulfur	ppm	ASTM D5185m	980	1413	974	
Visc @ 40°C	cSt	ASTM D445	39	34.8	36.3	

Contact/Location: TERRY THOMPSON - HENWILJR





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