

#### Machine Id JOHN DEERE 305EC 305E-706 (S/N XFA01040) Component Right Final Drive Fluid SAE 50W (--- GAL)

## RECOMMENDATION

We advise that you check for the source of water entry. 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**

The iron, chrome and nickel levels are severe. Gear wear is indicated.

# CONTAMINATION

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

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	Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
	Sample Number		Client Info		TL	Y0002605		
	Sample Date		Client Info		27	Jun 2024		
	Machine Age	hrs	Client Info		54	100		
	Oil Age	hrs	Client Info		46	624		
	Filter Age	hrs	Client Info		46	624		
	Oil Changed		Client Info		CI	hanged		
	Filter Changed		Client Info		CI	hanged		
	Sample Status				SE	EVERE		
	Iron		ACTM DE105m	. 750		16654		
	Chromium	ppm	ACTM DE105m	>750		10004		
	Chromium	ppm	ASTM DE105m	>9		104		
	NICKEI	ppm		>10		84		
	l itanium	ppm				149		
	Silver	ppm	ASTM D5185m	40		<1		
	Aluminum	ppm	ASTM D5185m	>40		1648		
	Lead	ppm	ASTM D5185m	>15		4		
	Copper	ppm	ASTM D5185m	>40		48		
	Tin	ppm	ASTM D5185m	>10		0		
	Vanadium	ppm	ASTM D5185m			6		
	White Metal	scalar	*Visual	NONE		NONE		
	Yellow Metal	scalar	*Visual	NONE		NONE		
	Silicon	maa	ASTM D5185m	>75		7911		
	Potassium	ppm	ASTM D5185m	>20		393		
	Water	%	ASTM D6304	>0.075		0.575		
	ppm Water	mqq	ASTM D6304	>750		5750		
	Silt	scalar	*Visual	NONE		NONE		
	Debris	scalar	*Visual	NONE		NONE		
	Sand/Dirt	scalar	*Visual	NONE		NONE		
	Appearance	scalar	*Visual	NORML		NORML		
	Odor	scalar	*Visual	NORML		NORML		
	Emulsified Water	scalar	*Visual	>0.075		0.2%		
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	Sodium	ppm	ASTM D5185m	>51		85		
	Boron	ppm	ASTM D5185m			110		
	Barium	ppm	ASTM D5185m			4		
	Molybdenum	ppm	ASTM D5185m			16		
	Manganese	ppm	ASTM D5185m			127		
	Magnesium	ppm	ASTM D5185m			149		
	Calcium	ppm	ASTM D5185m			296		
	Phosphorus	ppm	ASTM D5185m			574		
	Zinc	ppm	ASTM D5185m			145		
	Sulfur	ppm	ASTM D5185m			50924		
	Visc @ 40°C	cSt	ASTM D445	215	l I	342		

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Submitted By: BRANDY BADING





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