

Machine Id JOHN DEERE 470G 1FF470GXJJF235253 Component Right Final Drive Fluid GEAR OIL SAE 80W140 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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.

CONTAMINATION

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

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

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	Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
	Sample Number		Client Info		JF	R0203470	JR0113735	JR0087270
	Sample Date		Client Info		14	Mar 2024	21 Dec 2021	24 Jun 2021
	Machine Age	hrs	Client Info		62	231	3536	0
	Oil Age	hrs	Client Info		26	695	500	500
	Filter Age	hrs	Client Info		0		500	500
	Oil Changed		Client Info		No	ot Changd	Changed	Changed
	Filter Changed		Client Info		N/	Ά	Changed	Changed
	Sample Status				SE	EVERE	ABNORMAL	ABNORMAL
	PQ		ASTM D8184	>1250		1249	149	89
	Iron	ppm	ASTM D5185m	>750		7279	211	137
	Chromium	maa	ASTM D5185m	>9		61	5	3
	Nickel	ppm	ASTM D5185m	>10		7	0	<1
	Titanium	ppm	ASTM D5185m			37	4	1
	Silver	ppm	ASTM D5185m			0	0	0
	Aluminum	ppm	ASTM D5185m	>40		485	54	12
	Lead	ppm	ASTM D5185m	>15		1	0	<1
	Copper	ppm	ASTM D5185m	>40		12	<1	<1
	Tin	maa	ASTM D5185m	>10		0	0	0
	Vanadium	ppm	ASTM D5185m			2	<1	<1
	White Metal	scalar	*Visual	NONE		NONE	VLITE	NONE
	Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
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	Silicon	ppm	ASTM D5185m	>75		1906	1 17	41
	Potassium	ppm	ASTM D5185m	>20		74	6	3
	Water		WC Method	>0.075		NEG	NEG	NEG
	Silt	scalar	*Visual	NONE		NONE	VLITE	NONE
	Debris	scalar	*Visual	NONE		NONE	LIGHT	A MODER
	Sand/Dirt	scalar	*Visual	NONE		NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML		NORML	NORML	NORML
	Odor	scalar	*Visual	NORML		NORML	NORML	NORML
-	Emulsified Water	scalar	*Visual	>0.075		NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>51		47	4	1
	Boron	ppm	ASTM D5185m	400		62	40	27
	Barium	ppm	ASTM D5185m	200		<1	0	0
	Molybdenum	ppm	ASTM D5185m	12		6	2	1
	Manganese	ppm	ASTM D5185m			57	3	2
	Magnesium	ppm	ASTM D5185m	12		52	8	6
	Calcium	ppm	ASTM D5185m	150		78	25	85
	Phosphorus	ppm	ASTM D5185m	1650		366	431	408
	Zinc	ppm	ASTM D5185m	125		13	9	17
	Sulfur	ppm	ASTM D5185m	22500		21602	18487	15528
	Visc @ 40°C	cSt	ASTM D445	263		967	151	151

Submitted By: Mike Young - CHARLOTTE SHOP



: JR0203470 9550 STATESVILLE ROAD Sample No. Received : 19 Mar 2024 Lab Number : 06122714 : 22 Mar 2024 CHARLOTTE, NC Tested : 22 Mar 2024 - Jonathan Hester US 28269 Unique Number : 10936865 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

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