

45.9 45.4

1139

0.051

## Area {unassigned} **JOHN DEERE 35G 1FF035GXKKK287092**

## Hydraulic System

## HITACHI HYDRAULIC SUPER EX 46HN (15 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0036633		LEC001281
	Sample Date		Client Info		11 Nov 2022	21 May 2021	29 Jul 202
	Machine Age	hrs	Client Info		1442	961	491
	Oil Age	hrs	Client Info		1442	961	491
	Filter Age	hrs	Client Info		1442	470	491
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				NORMAL	NORMAL	ABNORM
WEAR	PQ		ASTM D8184	>50	9	23	19
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>32	5	6	7
	Chromium	ppm	ASTM D5185m	>9	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		2	<1	0
	Aluminum	ppm	ASTM D5185m	>9	<1	<1	0
	Lead	ppm	ASTM D5185m	>28	<1	<1	<1
	Copper	ppm	ASTM D5185m	>50	2	3	4
	Tin	ppm	ASTM D5185m	>5	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	1	<1	2
	Potassium	ppm	ASTM D5185m	>20	1	0	<1
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>80000	10313	9909	A 1751
	Particles >6µm		ASTM D7647	>20000	1001	651	▲ 2315
	Particles >14µm		ASTM D7647	>640	43	10	56
	Particles >21µm		ASTM D7647	>160	9	4	6
	Particles >38µm		ASTM D7647	>40	1	0	0
	Particles >71µm		ASTM D7647	>10	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/17/13	20/17/10	<b></b> 21/18/
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORI
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	2	0
	Boron	ppm	ASTM D5185m		0	1	0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		5	10	13
	Calcium	ppm	ASTM D5185m		<1	0	4
	Phosphorus	ppm	ASTM D5185m	827	288	305	315
	Zinc	ppm	ASTM D5185m		56	42	33
	0.1	PPIII		10		10.40	1100

Sulfur

ppm ASTM D5185m 13

Acid Number (AN) mg KOH/g ASTM D8045 0.06

Visc @ 40°C cSt ASTM D445 47

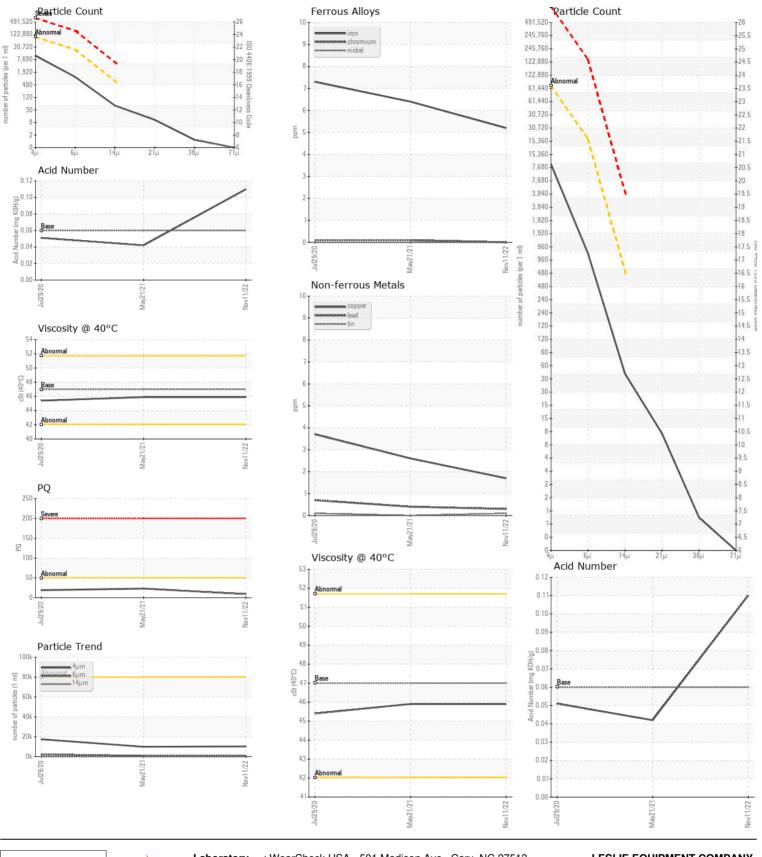
1049

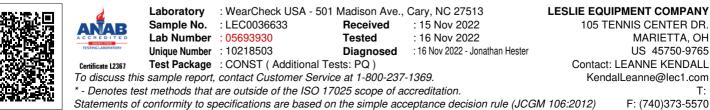
0.042

1470

0.11

45.9





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JEFF SHERRY

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