



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

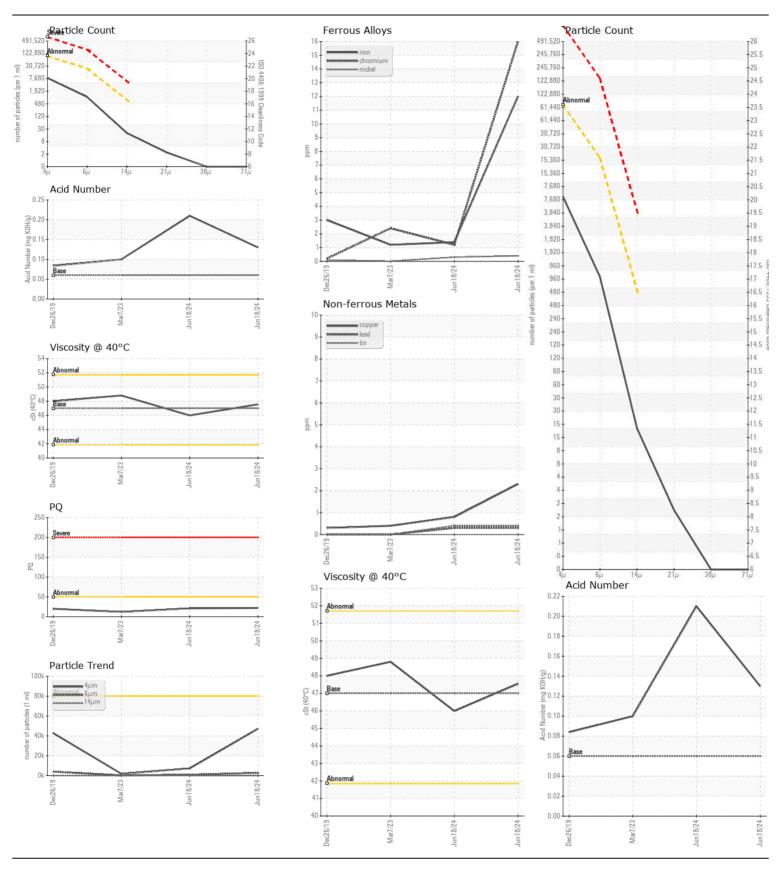


JOHN DEERE 350G 1FF350GXCGF811323

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date. (Customer Sample Comment: CHECK FOR CROSS CONTAMINATION/ WRONG OIL TYPE)	Sample Number		Client Info		LEC0050859	,	LEC0040001
	Sample Date		Client Info		18 Jun 2024	18 Jun 2024	07 Mar 2023
	Machine Age	hrs	Client Info		5780	8120	4988
	Oil Age	hrs	Client Info		792	3132	2160
	Filter Age	hrs	Client Info		792	3132	2156
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Not Changd	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR All component wear rates are normal.	PQ		ASTM D8184	>50	22	21	12
	Iron	ppm	ASTM D5185m	>32	1	12	1
	Chromium	ppm	ASTM D5185m	>9	1	<u></u> 16	2
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	2	<1
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		<1	2	<1
	Tin	ppm	ASTM D5185m	>5	<1	<1	0
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0 NONE
	Yellow Metal	scalar scalar	*Visual	NONE	NONE	NONE	NONE
			v isuai				
CONTAMINATION	Silicon	ppm	ASTM D5185m		1	6	1
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	1	0
	Water	%	ASTM D6304		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		7265	47107	1784
	Particles >6µm				890	2790	166
	Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647		17 2	9	8
	Particles >38µm		ASTM D7647		0	0	1
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		20/17/11	23/19/10	18/15/12
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	\21	0	<1	<1
I LOID CONDITION	Boron	ppm	ASTM D5185m	/L1	0	0	0
Additive levels do not indicate the addition of a different brand, or type of oil. AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.	Barium	ppm	ASTM D5185m		<1	1	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	0
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		<1	3	4
	Calcium	ppm	ASTM D5185m		21	96	121
	Phosphorus	ppm	ASTM D5185m	827	613	650	598
	Zinc	ppm	ASTM D5185m		21	53	49
	Sulfur	ppm	ASTM D5185m		0	128	164
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.13	0.21	0.10
	Visc @ 40°C	cSt	ASTM D445	4/	47.55	45.99	48.8





Certificate L2367

Laboratory Sample No. Lab Number Unique Number: 11089132

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0050859 : 06216268

Received **Tested** Diagnosed

: 20 Jun 2024 : 20 Jun 2024

: 20 Jun 2024 - Doug Bogart

Test Package : CONST (Additional Tests: KF, PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

F: (724)725-1133

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

bjordan@safecoservices.com

SAFECO ENVIRONMENTAL

3082 SOUTH HWY 88

Contact: B JORDAN

DILLINER, PA

US 15327

T: