

History2

.

Machine Id **JOHN DEERE 160G 1FF160GXVMF058183** Component Hydraulic System HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212369	JR0000459	
	Sample Date		Client Info		02 Jul 2024	30 Mar 2023	
	Machine Age	hrs	Client Info		1200	740	
	Oil Age	hrs	Client Info		1200	740	
	Filter Age	hrs	Client Info		1200	740	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	16	7	
	Iron	ppm	ASTM D5185m	>32	2	5	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	0	<1	
	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>9	0	<1	
	Lead	ppm	ASTM D5185m	>28	0	0	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m	>5	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<1	<1	
	Potassium	ppm	ASTM D5185m	>20	0	<1	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.075	NEG	NEG	
	Particles >4µm		ASTM D7647	>80000	565	2546	
	Particles >6µm		ASTM D7647	>20000	103	131	
	Particles >14µm		ASTM D7647	>640	5	10	
	Particles >21µm		ASTM D7647	>160	1	3	
	Particles >38µm		ASTM D7647	>40	0	0	
	Particles >71µm		ASTM D7647	>10	0	0	
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	16/14/10	19/14/10	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	<1	
	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		<1	9	
	Calcium	ppm	ASTM D5185m		<1	0	
	Phosphorus	ppm	ASTM D5185m	827	448	521	
	Zinc	ppm	ASTM D5185m	0	28	41	

Report Id: JAMASH [WUSCAR] 06230052 (Generated: 07/09/2024 23:49:21) Rev: 1

90

0.17

45.5

ppm ASTM D5185m 13

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

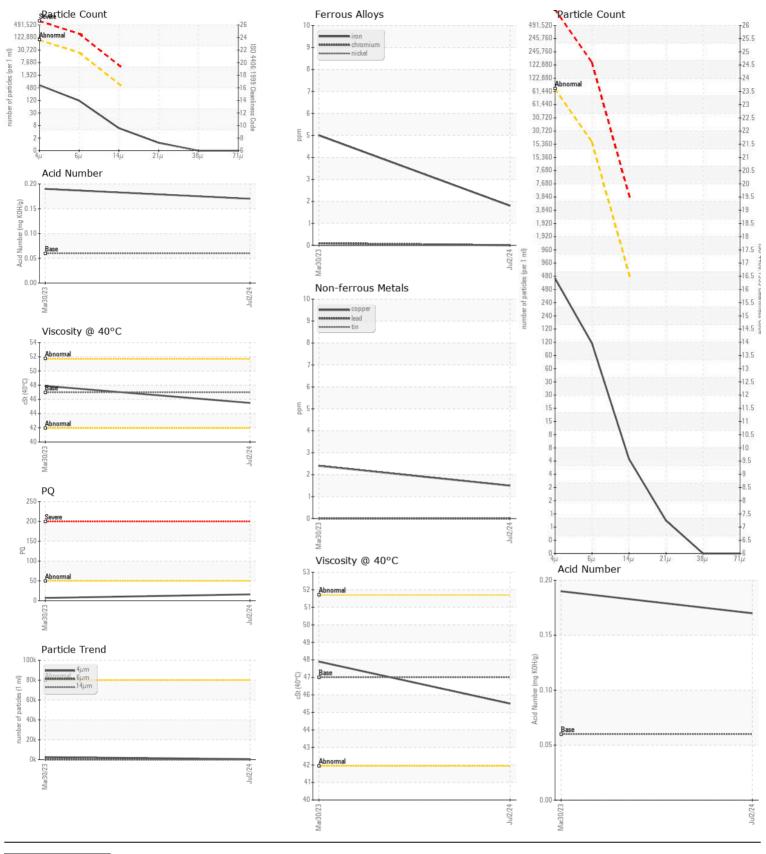
Visc @ 40°C cSt ASTM D445 47

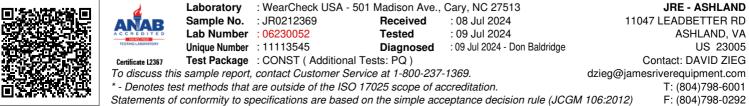
Sulfur

137

0.19

47.9





Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2