

[W51110] HITACHI 350G 1FF350GXTEF810244 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

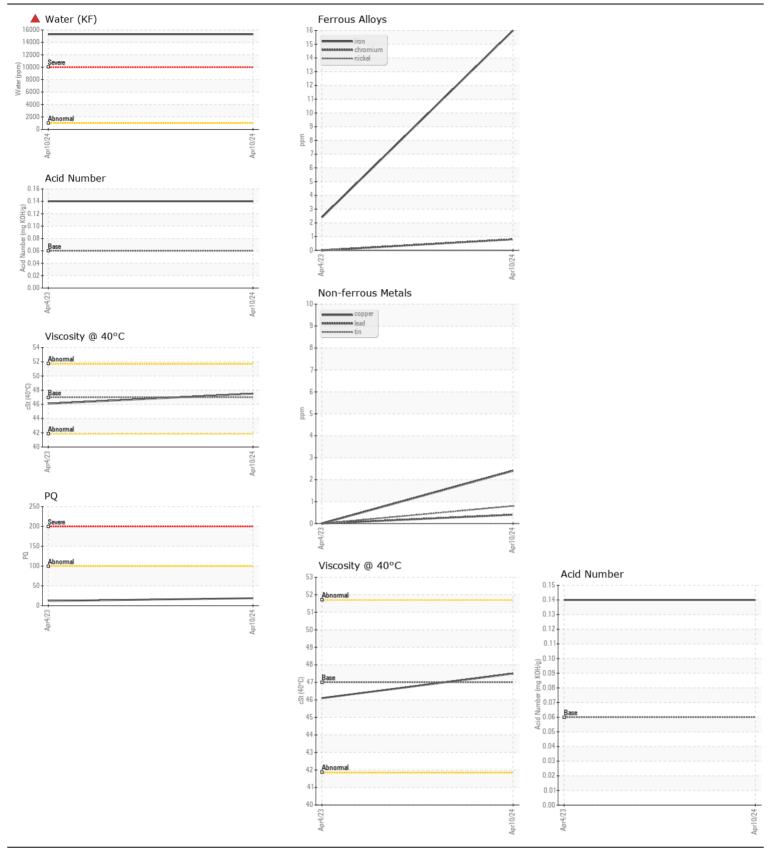
CONTAMINATION

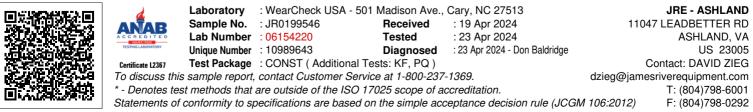
Appearance is milky. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil.

Test	UOM	Method	Limit/Abn		urrent	History1	History2
Sample Number		Client Info			0199546	JR0166340	
Sample Date		Client Info			Apr 2024	04 Apr 2023	
Machine Age	hrs	Client Info		81	19	7553	
Oil Age	hrs	Client Info		0		0	
Filter Age	hrs	Client Info		0		0	
Oil Changed		Client Info		Cł	nanged	N/A	
Filter Changed		Client Info			nanged	N/A	
Sample Status				SE	VERE	NORMAL	
DO		ASTM D8184			10	10	
PQ Iron	~~~~		. 00		19 16	12 2	
Chromium	ppm	ASTM D5185m ASTM D5185m	>20 >10		<1	0	
Nickel	ppm ppm	ASTM D5185m	>10		< I 0	0	
Titanium		ASTM D5185m	>10		0	0	
Silver	ppm ppm	ASTM D5185m			0	0	
Aluminum	ppm	ASTM D5185m	>10		2	0	
Lead	ppm	ASTM D5185m	>10		<u>د</u> <1	0	
Copper	ppm	ASTM D5185m	>75		2	0	
Tin	ppm	ASTM D5185m	>10		- <1	0	
Vanadium	ppm	ASTM D5185m	210		0	0	
White Metal	scalar	*Visual	NONE		NONE	NONE	
Yellow Metal	scalar	*Visual	NONE		NONE	NONE	
Silicon	ppm	ASTM D5185m	>20		8	5	
Potassium	ppm	ASTM D5185m	>20		3	0	
Water	%	ASTM D6304	>0.1		1.53		
ppm Water	ppm	ASTM D6304	>1000		15300		
Particles >4µm		ASTM D7647	>5000			4784	
Particles >6µm		ASTM D7647	>1300			588	
Particles >14µm		ASTM D7647	>160			24	
Particles >21µm		ASTM D7647	>40			3	
Particles >38µm		ASTM D7647	>10			0	
Particles >71µm		ASTM D7647	>3			0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14			19/16/12	
Silt	scalar	*Visual	NONE		MODER	NONE	
Debris Sand/Dirt	scalar	*Visual	NONE		MODER NONE	NONE NONE	
	scalar scalar	*Visual *Visual	NONE		MILKY	NORML	
Appearance Odor	scalar	*Visual	NORML		NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1		0.2%	NEG	
		v isuai	>0.1		0.2 /6	NLQ	
Sodium	ppm	ASTM D5185m			3	0	
Boron	ppm	ASTM D5185m			0	0	
Barium	ppm	ASTM D5185m			0	0	
Molybdenum	ppm	ASTM D5185m			0	0	
Manganese	ppm	ASTM D5185m			<1	<1	
Magnesium	ppm	ASTM D5185m			6	11	
Calcium	ppm	ASTM D5185m			71	14	
Phosphorus	ppm	ASTM D5185m	827		409	359	
Zinc	ppm	ASTM D5185m	0		74	37	
Sulfur	ppm	ASTM D5185m	13		441	96	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06		0.14	0.14	
Visc @ 40°C	cSt	ASTM D445	47		47.5	46.1	

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.





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