

## Machine Id WIRTGEN W380CRI 04CR0025 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

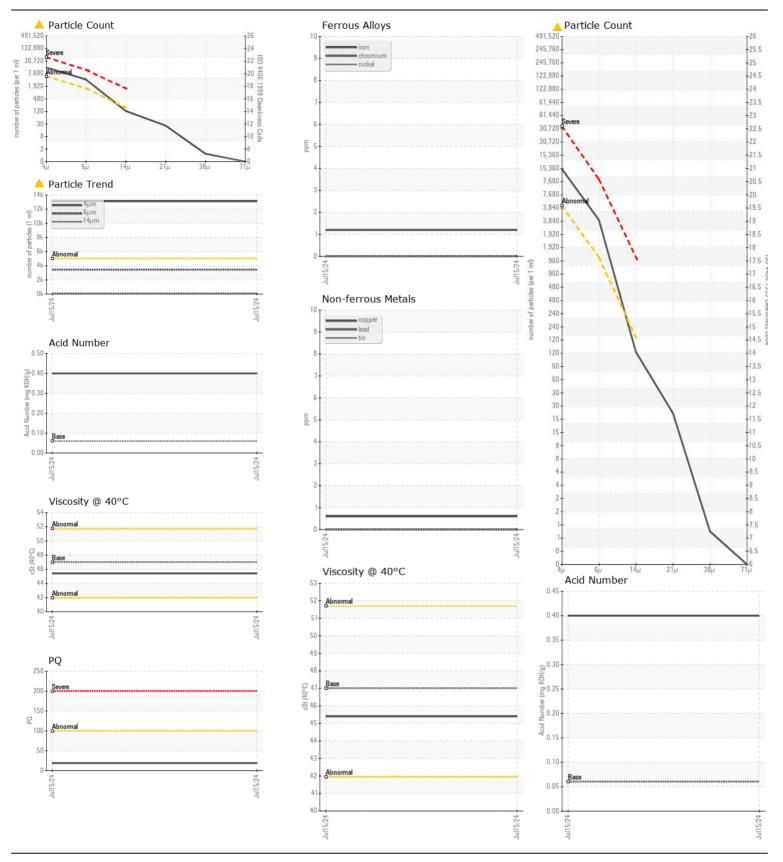
## CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224459		
Sample Date		Client Info		15 Jul 2024		
Machine Age	hrs	Client Info		83		
Oil Age	hrs	Client Info		83		
Filter Age	hrs	Client Info		83		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
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PQ		ASTM D8184		19		
Iron	ppm	ASTM D5185m	>20	1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	110115	0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	nom	ASTM D5185m	>20	2		
Potassium	ppm	ASTM D5185m	>20	2 <1		
Water	ppm	WC Method	>20	NEG		
Particles >4µm		ASTM D7647		A 13103		
Particles >6µm		ASTM D7647	>1300	▲ 13103 ▲ 3447		
Particles >14µm		ASTM D7647		109		
Particles >21µm		ASTM D7647	>40	22		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Sodium	ppm	ASTM D5185m		<1		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		66		
Calcium	ppm	ASTM D5185m	0.6-	20		
Phosphorus	ppm	ASTM D5185m		272		
Zinc	ppm	ASTM D5185m	0	338		
Sulfur	ppm	ASTM D5185m	13	915		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.40		
Visc @ 40°C	cSt	ASTM D445	47	45.4		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0224459 Received 11047 LEADBETTER RD : 17 Jul 2024 Ġ Lab Number : 06239058 ASHLAND, VA Tested : 18 Jul 2024 : 18 Jul 2024 - Don Baldridge US 23005 Unique Number : 11127892 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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