

Machine Id WIRTGEN WR200XLI 09WR0222 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.



All component wear rates are normal.

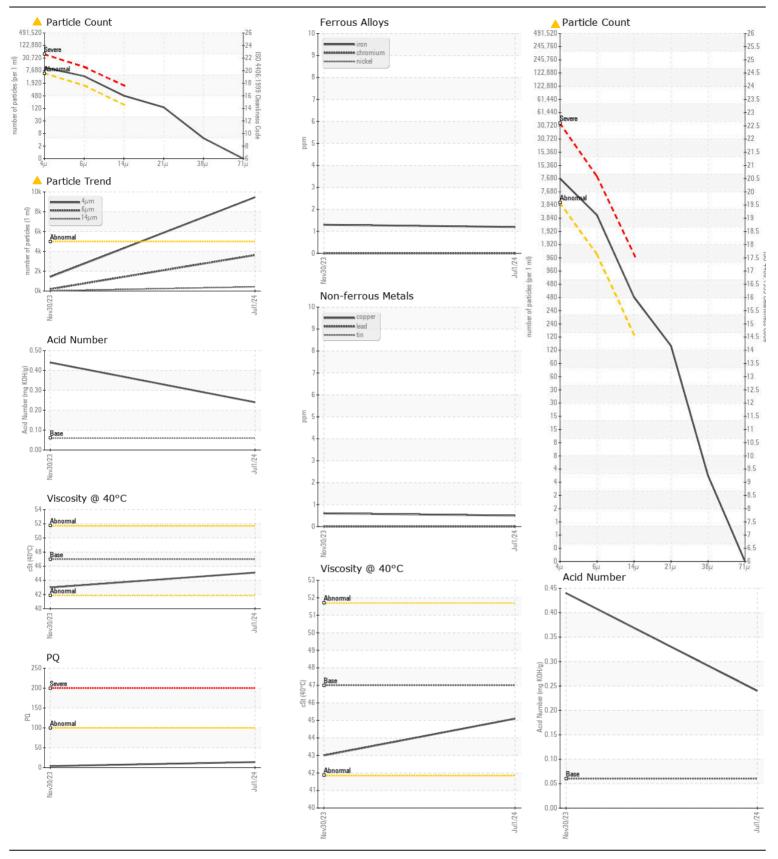
CONTAMINATION

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224452	JR0181044	
Sample Date		Client Info		01 Jul 2024	30 Nov 2023	
Machine Age	hrs	Client Info		1547	1142	
Oil Age	hrs	Client Info		1547	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
PQ		ASTM D8184		14	4	
Iron	ppm	ASTM D5185m	>20	1	1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	<1	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Ciliara			00	0	0	
Silicon	ppm	ASTM D5185m	>20	2 <1	3	
Potassium	ppm	ASTM D5185m		<1 NEG	NEG	
Water Particles >4µm		WC Method	>0.1 >5000	-	1426	
		ASTM D7647 ASTM D7647	>1300	9465 3629	1426	
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>160	425	17	
Particles >21µm		ASTM D7647 ASTM D7647	>40	▲ 425 ▲ 119	6	
Particles >38µm		ASTM D7647 ASTM D7647	>10	4	0	
Particles >71µm		ASTM D7647	>3	- 0	0	
Oil Cleanliness		ISO 4406 (c)		A 20/19/16	18/15/11	
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		*Visual	>0.1	NEG	NEG	
	coului					
Sodium	ppm	ASTM D5185m		<1	0	
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		18	44	
Calcium	ppm	ASTM D5185m		94	209	
Phosphorus	ppm	ASTM D5185m	827	371	277	
Zinc	ppm	ASTM D5185m	0	191	366	
Sulfur	ppm	ASTM D5185m	13	659	963	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.24	0.44	
Visc @ 40°C	cSt	ASTM D445	47	45.1	43.0	
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0224452 Received 11047 LEADBETTER RD : 03 Jul 2024 ١Ē Lab Number : 06227321 : 05 Jul 2024 ASHLAND, VA Tested Unique Number : 11110814 : 05 Jul 2024 - Wes Davis US 23005 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