

Machine Id WIRTGEN W210FI 23200388 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

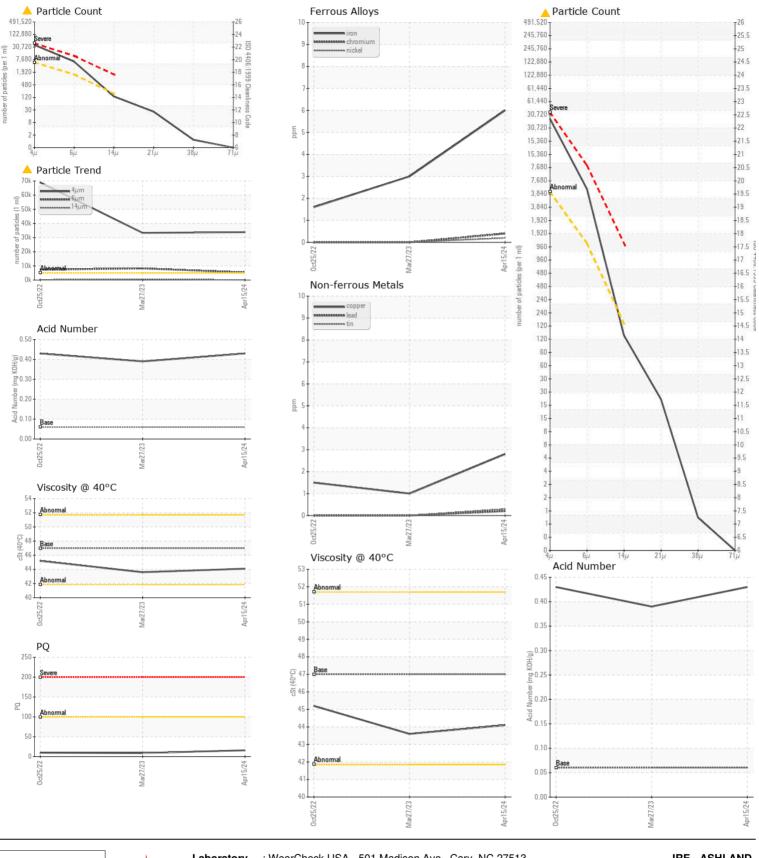
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0179241	JR0165215	JR0150183
Sample Date		Client Info		15 Apr 2024	27 Mar 2023	25 Oct 2022
Machine Age	hrs	Client Info		938	437	46
Oil Age	hrs	Client Info		938	437	46
Filter Age	hrs	Client Info		0	0	46
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status		0.101.11.110		ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		16	9	10
Iron	ppm	ASTM D5185m	>20	6	3	2
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	3	1	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
0:1:				•	4	
Silicon	ppm	ASTM D5185m	>20	2	<1	1
Potassium	ppm	ASTM D5185m	>20	_	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	A 33788	▲ 33317 ▲ 2005	▲ 68874
Particles >6µm		ASTM D7647	>1300	▲ 5375	A 8235	▲ 7370
Particles >14µm		ASTM D7647	>160	117	▲ 417 ▲ 00	▲ 173
Particles >21µm		ASTM D7647	>40	22	A 82	▲ 48
Particles >38µm		ASTM D7647	>10	1	6	1
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness	a a a la c	ISO 4406 (c)	>19/17/14	A 22/20/14	A 22/20/16	▲ 23/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris Sand/Dirt	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		38	46	46
Calcium	ppm	ASTM D5185m		14	16	18
Phosphorus	ppm	ASTM D5185m	827	237	273	283
Zinc	ppm	ASTM D5185m	0	329	354	373
Sulfur	ppm	ASTM D5185m	13	869	812	1163
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.43	0.39	0.43
	oC+		47	44.4	10.0	45.0

Visc @ 40°C cSt ASTM D445 47

43.6 45.2

44.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0179241 Received 11047 LEADBETTER RD : 23 Apr 2024 Lab Number ASHLAND, VA : 06157555 Tested : 24 Apr 2024 : 25 Apr 2024 - Jonathan Hester US 23005 Unique Number : 10992978 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