

[44632] Machine Id HITACHI ZX210 1FFDCJ70LEE330546 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.

WEAR	

All component wear rates are normal.

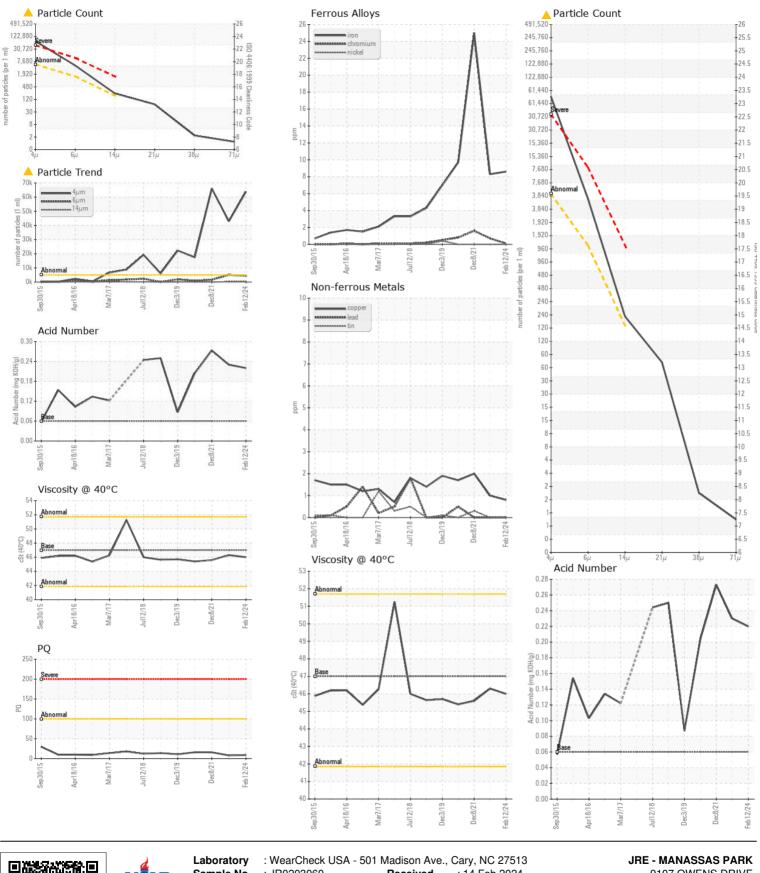
CONTAMINATION

There is a high amount of particulates present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203060	JR0157766	JR0110698
Sample Date		Client Info		12 Feb 2024	11 Jan 2023	08 Dec 2021
Machine Age	hrs	Client Info		7239	6545	5625
Oil Age	hrs	Client Info		6319	920	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		9	8	16
Iron	ppm	ASTM D5185m	>20	9	8	<u> </u>
Chromium	ppm	ASTM D5185m	>10	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	3	6
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	<1	1	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Cilicon				4	4	0
Silicon	ppm	ASTM D5185m	>20	1	1	2
Potassium	ppm	ASTM D5185m	>20	<1 NEC	0 NEG	0 NEG
Water		WC Method	>0.1	NEG		NEG ▲ 66014
Particles >4µm		ASTM D7647 ASTM D7647	>5000 >1300	▲ 63804 ▲ 4397	▲ 42937 ▲ 5047	▲ 66014 ▲ 1579
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>1300	▲ 4397 ▲ 203	▲ 5047 ▲ 286	7
Particles >21µm		ASTM D7647 ASTM D7647	>160	▲ 203 ▲ 61	▲ 200 ▲ 52	2
Particles >38µm		ASTM D7647 ASTM D7647	>40	2	2	0
Particles >30µm Particles >71µm		ASTM D7647 ASTM D7647	>10	2 1	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	× 23/19/15	▲ 23/20/15	▲ 23/18/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	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		*Visual	>0.1	NEG	NEG	NEG
	Jouran				0	
Sodium	ppm	ASTM D5185m		0	0	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		2	3	2
Phosphorus	ppm	ASTM D5185m	827	463	536	450
Zinc	ppm	ASTM D5185m	0	17	12	24
Sulfur	ppm	ASTM D5185m	13	39	137	182
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.22	0.23	0.273
Visc @ 40°C	cSt	ASTM D445	47	46.0	46.3	45.6
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: JR0203060 9107 OWENS DRIVE Sample No. Received : 14 Feb 2024 : 06089515 MANASSAS PARK, VA Lab Number Tested : 15 Feb 2024 : 16 Feb 2024 - Don Baldridge Unique Number : 10876960 US 20111 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

Submitted By: TECHNICIAN ACCOUNT