

[W66265] Machine Id HITACHI 210LC 1FFDC571EMF341025 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (20 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. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: W66265)



All component wear rates are normal.

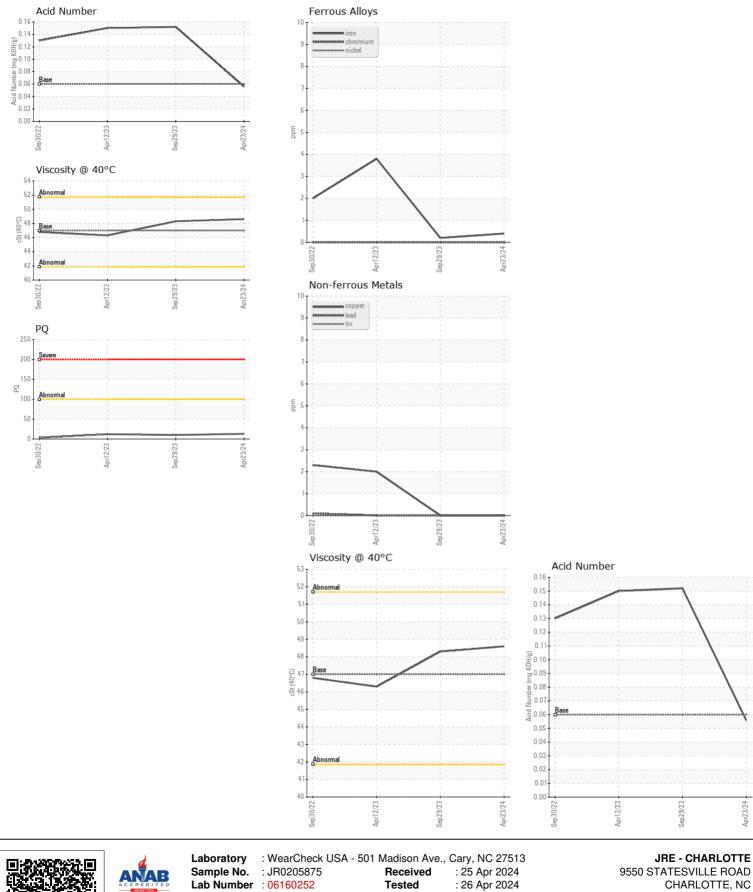
CONTAMINATION

Moderate concentration of visible dirt/debris 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		JR0205875	JR0188655	JR0142002
Sample Date		Client Info		23 Apr 2024	29 Sep 2023	12 Apr 2023
Machine Age	hrs	Client Info		2014	1533	945
Oil Age	hrs	Client Info		1426	588	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
		ASTM D8184		13	10	12
PQ	0000		. 00			4
Iron Chromium	ppm	ASTM D5185m ASTM D5185m	>20 >10	<1 0	<1 0	4
	ppm			0		0
Nickel	ppm	ASTM D5185m	>10	-	0	÷
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	. 10	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	<1 0
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	0	0	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m				
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	2	1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000		4712	1 1024
Particles >6µm		ASTM D7647	>1300		598	▲ 3546
Particles >14µm		ASTM D7647	>160		28	150
Particles >21µm		ASTM D7647	>40		8	21
Particles >38µm		ASTM D7647	>10		0	1
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		19/16/12	2 1/19/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	LIGHT
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	000	ACTM DE10E~		.4	0	0
Sodium	ppm	ASTM D5185m ASTM D5185m		<1	0	0
Boron Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm ppm	ASTM D5185m		0	1	0
Manganese		ASTM D5185m		0	0	<1
Magnesium	ppm ppm	ASTM D5185m		0 <1	4	<1
Calcium		ASTM D5185m		5	9	2
Phosphorus	ppm	ASTM D5185m	827	5 626	9 594	506
Zinc	ppm ppm	ASTM D5185m	027	10	9	26
Sulfur	ppm	ASTM D5185m	13	36	36	145
Acid Number (AN)	mg KOH/g	ASTM D3183III ASTM D8045	0.06	0.056	0.152	0.15
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	47	48.6	48.3	46.3
130 @ 40 0	001	A011010443	-+ /	40.0	40.0	40.0



 Unique Number
 : 10995675
 Diagnosed
 : 26 Apr 2024 - Don Baldridge
 US 28269

 Certificate 12367
 Test Package
 : CONST (Additional Tests: PQ)
 Contact: CHARLOTTE SHOP

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 myoung@jamesriverequipment.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (704)597-0211

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2