

## Machine Id HITACHI 250LC 1FFDC270VJF440228 Hydraulic System HITACHI HYDRAULIC SUPER EX 46HN (30 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.



All component wear rates are normal.

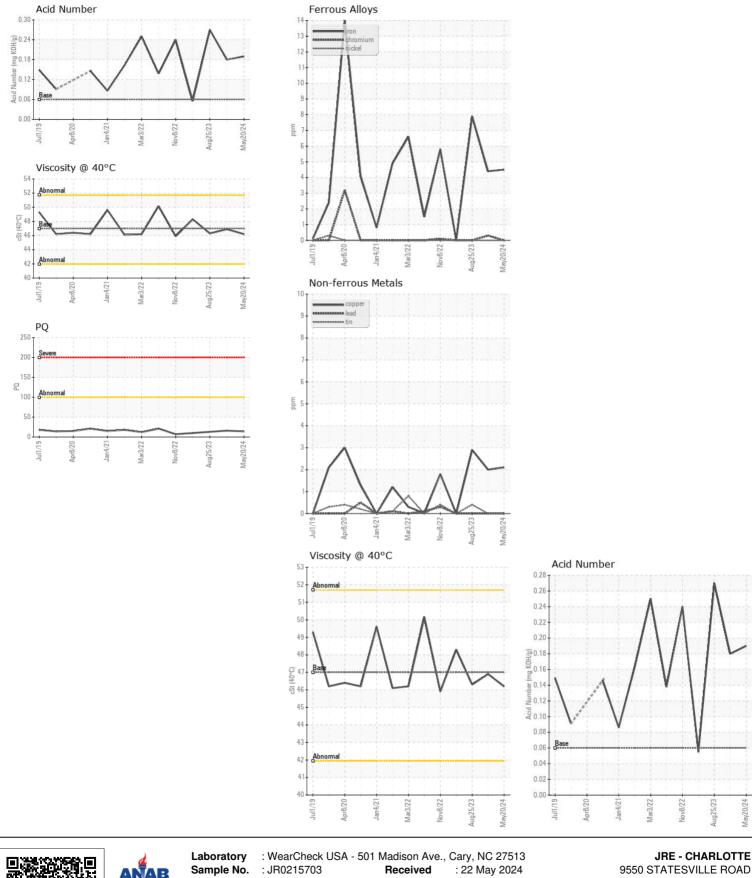
## CONTAMINATION

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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215703	JR0198112	JR0177979
Sample Date		Client Info		20 May 2024	25 Jan 2024	25 Aug 2023
Machine Age	hrs	Client Info		6584	6584	6053
Oil Age	hrs	Client Info		5473	5827	580
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
PQ		ASTM D8184		14	16	13
Iron	ppm	ASTM D5185m	>20	4	4	8
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	10	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	2	3
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m	NIONE	0		
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	2	1	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	le le	WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000		▲ 20691	9024
Particles >6µm		ASTM D7647	>1300		<b>4</b> 373	1545
Particles >14µm		ASTM D7647	>160		<b>A</b> 238	214
Particles >21µm		ASTM D7647	>40		<b>5</b> 5	73
Particles >38µm		ASTM D7647	>10		3	6
Particles >71µm		ASTM D7647	>3		0	1
<b>Oil Cleanliness</b>		ISO 4406 (c)	>19/17/14		<b>2</b> 2/19/15	20/18/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	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		ASTM D5185m			0	.4
	ppm	ASTM D5185m		<1	0	<1
Boron Barium	ppm			0	0	0
	ppm	ASTM D5185m ASTM D5185m		0	0	0
Molybdenum Manganese	ppm	ASTM D5185m		ہ <1	0	0
Magnesium	ppm	ASTM D5185m		0	1	<1
Calcium	ppm ppm	ASTM D5185m		0	3	3
Phosphorus	ppm	ASTM D5185m	827	534	538	497
Zinc	ppm	ASTM D5185m	0	0	0	6
Sulfur	ppm	ASTM D5185m	13	0	0	54
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.19	0.18	0.27
Visc @ 40°C	cSt	ASTM D445	47	46.2	46.9	46.3
	001				10.0	10.0



Lab Number : 06187544 Tested CHARLOTTE, NC : 24 May 2024 Unique Number : 11044296 : 24 May 2024 - Don Baldridge Diagnosed US 28269 Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP Certificate L2367 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