WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

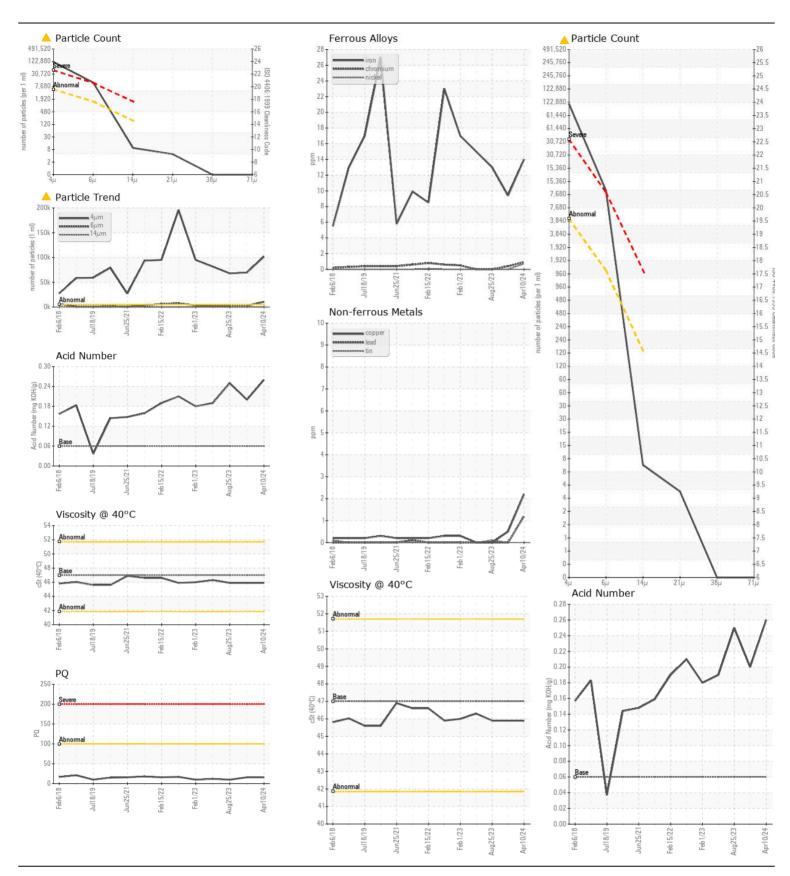
[16W16013]

## **HITACHI 350LC-6 1FFDDR70EFF940098**

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (78 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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. ( Customer Sample Comment: 16W16013 )	Sample Number		Client Info		JR0196408	JR0185619	JR0173506
	Sample Date		Client Info		10 Apr 2024	17 Nov 2023	25 Aug 2023
	Machine Age	hrs	Client Info		8607	8607	8071
	Oil Age	hrs	Client Info		3989	3639	3108
	Filter Age	hrs	Client Info		886	536	1039
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	PQ		ASTM D8184		16	16	10
	Iron	ppm	ASTM D5185m	>20	14	9	13
The iron level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	1	2	<1
	Lead	ppm	ASTM D5185m	>10	1	0	0
	Copper	ppm	ASTM D5185m	>75	2	<1	0
	Tin	ppm	ASTM D5185m	>10	1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	2	2
	Potassium	ppm	ASTM D5185m	>20	1	<1	0
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4μm		ASTM D7647	>5000	<b>101667</b>	<b>△</b> 69666	<b>△</b> 67783
	Particles >6µm		ASTM D7647	>1300	<b>10516</b>	2340	1222
	Particles >14μm		ASTM D7647	>160	8	48	10
	Particles >21μm		ASTM D7647		4	15	3
	Particles >38μm		ASTM D7647		0	1	1
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		<u>4</u> 24/21/10	23/18/13	<u>^</u> 23/17/10
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
			Visuai	20.1			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	<1
The AN level is acceptable for this fluid. The condition of the oils	Boron	ppm	ASTM D5185m		0	0	0
additive package is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		1	<1	0
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		3 57	0	0
	Calcium	ppm	ASTM D5185m	997	57 570	4 570	<1
	Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		579 19	578 0	529 1
	Sulfur	ppm	ASTM D5165III		47	0	56
	Acid Number (AN)	mg KOH/g	ASTM D3163111		0.26	0.20	0.25
	Visc @ 40°C	cSt	ASTM D0045		45.9	45.9	45.9
	V130 @ 40 0	COL	AUTIVI D440	71	73.3	70.0	70.0





Certificate L2367

Laboratory Sample No. **Lab Number** 

: 06147221

: JR0196408

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Unique Number: 10977299

**Tested** Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 12 Apr 2024 : 15 Apr 2024

: 16 Apr 2024 - Don Baldridge

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819 Contact: WILMINGTON SHOP

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we T: (910)675-9211

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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