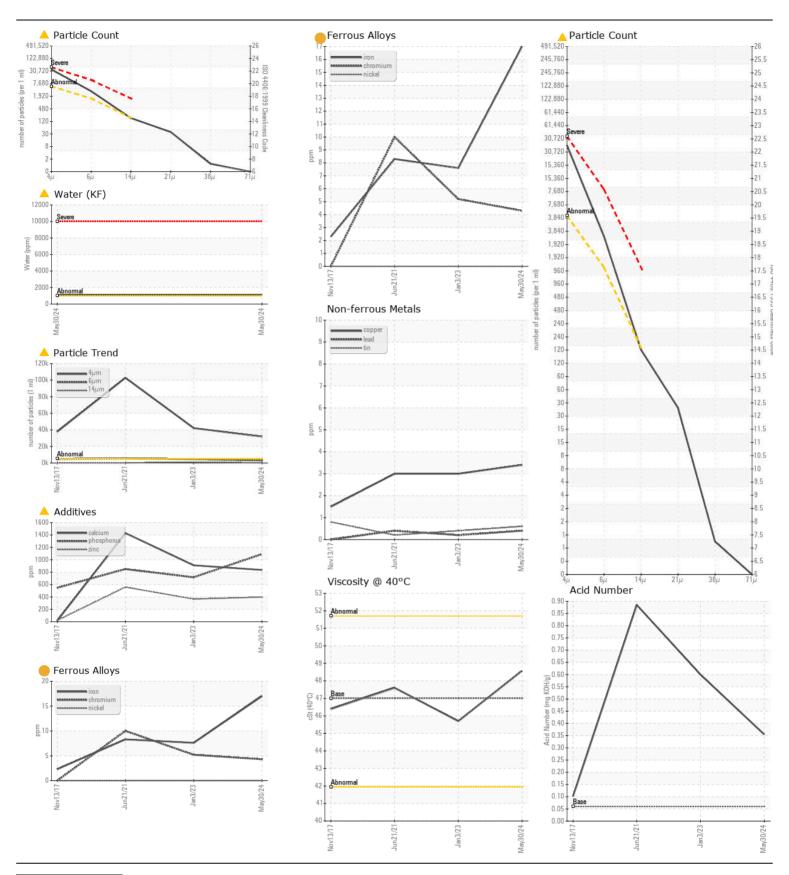
**WEAR CONTAMINATION FLUID CONDITION**  **ATTENTION ABNORMAL ABNORMAL** 

Machine Id

## HITACHI 350LC-6 1FFDDR70KHF940224

**Hydraulic System** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info	21111071011	JR0212804	JR0156768	JR0090768
	Sample Date		Client Info		30 May 2024	03 Jan 2023	21 Jun 202
	Machine Age	hrs	Client Info		7770 <sup>°</sup>	5675	4088
	Oil Age	hrs	Client Info		7770	5675	0
	Filter Age	hrs	Client Info		7770	0	0
	Oil Changed		Client Info		Changed	Changed	Not Chang
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR	PQ		ASTM D8184		18	9	21
	Iron	ppm	ASTM D5185m	>20	<b>17</b>	8	8
The iron level is marginal.	Chromium	ppm	ASTM D5185m	>10	4	5	<u> </u>
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	5	3	2
	Lead	ppm	ASTM D5185m	>10	<1	<1	<1
	Copper	ppm	ASTM D5185m	>75	3	3	3
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	▲ LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.	Silicon	ppm	ASTM D5185m	>20	12	6	8
	Potassium	ppm	ASTM D5185m	>20	2	0	0
	Water	%	ASTM D6304	>0.1	<b>0.109</b>		
	ppm Water	ppm	ASTM D6304	>1000	<b>1090</b>		
	Particles >4µm		ASTM D7647	>5000	<b>4</b> 31832	<u>42101</u>	<u> </u>
	Particles >6µm		ASTM D7647	>1300	<b>2931</b>	<u>4583</u>	<u></u> 5519
	Particles >14µm		ASTM D7647	>160	151	<u> </u>	158
	Particles >21µm		ASTM D7647	>40	33	<u> </u>	38
	Particles >38µm		ASTM D7647		1	<u> </u>	2
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/19/14</u>	<u>23/19/17</u>	<b>4</b> 24/20/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor		*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	4
	Boron	ppm	ASTM D5185m		9	10	55
Zinc level above manufacturer's recommendations. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		5	5	6
	Calcium	ppm	ASTM D5185m		<b>835</b>	910	1430
	Phosphorus	ppm	ASTM D5185m	827	1090	716	849
	Zinc	ppm	ASTM D5185m		<b>△</b> 397	<u></u> 4 365	558
	Sulfur	ppm	ASTM D5185m	13	<b>3186</b>	<b>1921</b>	3121
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.355	0.60	0.885
	Visc @ 40°C	cSt	ASTM D445	47	48.57	45.7	47.6





Laboratory

Sample No. Lab Number : 06197220 Unique Number : 11059343

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0212804

Received **Tested** 

: 31 May 2024 : 31 May 2024 : 31 May 2024 - Doug Bogart Diagnosed

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC US 27529

Test Package : CONST ( Additional Tests: KF, PQ ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432 Submitted By: MARK TUTTLE

Contact: RALEIGH SHOP