**WEAR CONTAMINATION FLUID CONDITION** 

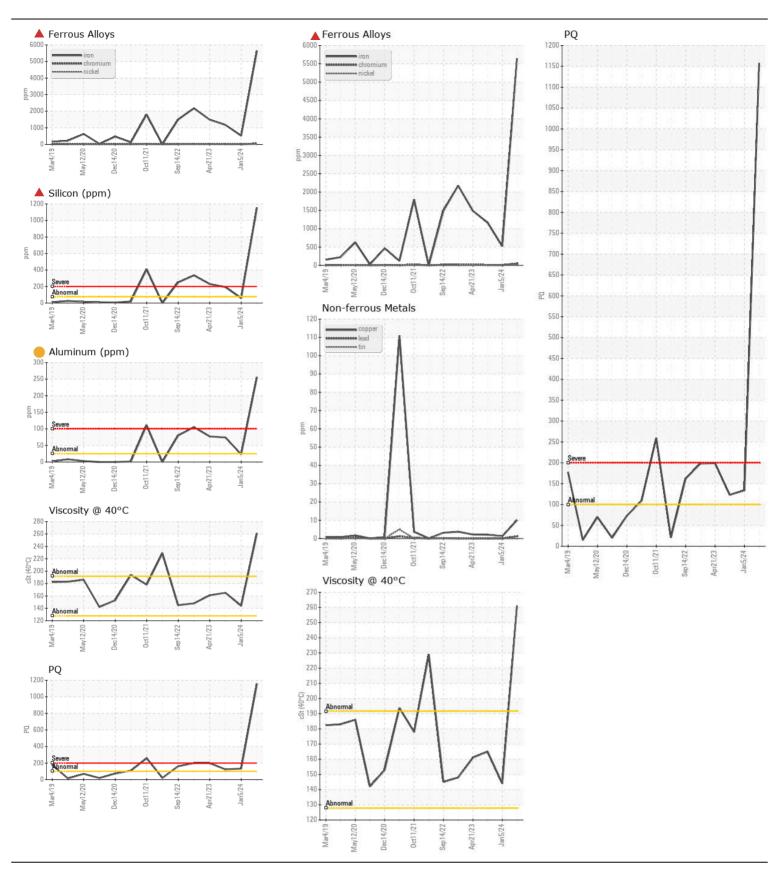
**SEVERE SEVERE NORMAL** 

[W67130]

## HITACHI 470LC HCMJAG60C00060577

**Left Final Drive** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: W67130 )	Sample Number		Client Info		JR0215759	JR0189068	JR017804
	Sample Date		Client Info		20 May 2024	05 Jan 2024	29 Aug 202
	Machine Age	hrs	Client Info		8038	8575	8296
	Oil Age	hrs	Client Info		6509	6788	1787
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	NORMAL	ABNORMA
WEAR	PQ		ASTM D8184		1157	134	123
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	▲ 5644	520	<b>1</b> 167
	Chromium	ppm	ASTM D5185m	>10	<b>4</b> 7	6	<u> </u>
	Nickel	ppm	ASTM D5185m	>10	5	<1	1
	Titanium	ppm	ASTM D5185m		<u> </u>	1	3
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m	>25	<b>256</b>	23	<b>7</b> 4
	Lead	ppm	ASTM D5185m	>25	1	0	0
	Copper	ppm	ASTM D5185m	>50	10	1	2
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		2	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODEF
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	<b>1154</b>	58	<u>193</u>
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	41	4	8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODEF
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		24	2	8
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		52	7	34
	Barium	ppm	ASTM D5185m		2	1	2
	Molybdenum	ppm	ASTM D5185m		5	0	<1
	Manganese	ppm	ASTM D5185m		46	6	9
	Magnesium	ppm	ASTM D5185m		20	<1	7
	Calcium	ppm	ASTM D5185m		30	7	18
	Phosphorus	ppm	ASTM D5185m		820	341	970
	Zinc	ppm	ASTM D5185m		16	8	10
	Sulfur	ppm	ASTM D5185m		21672	17490	23460
	Visc @ 40°C	cSt	ASTM D445		261	144	165





Certificate L2367

Laboratory Sample No. Lab Number

: JR0215759 : 06191315 Unique Number : 11048067

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

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

: 24 May 2024 : 29 May 2024

: 29 May 2024 - Sean Felton

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

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.

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