WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

Area

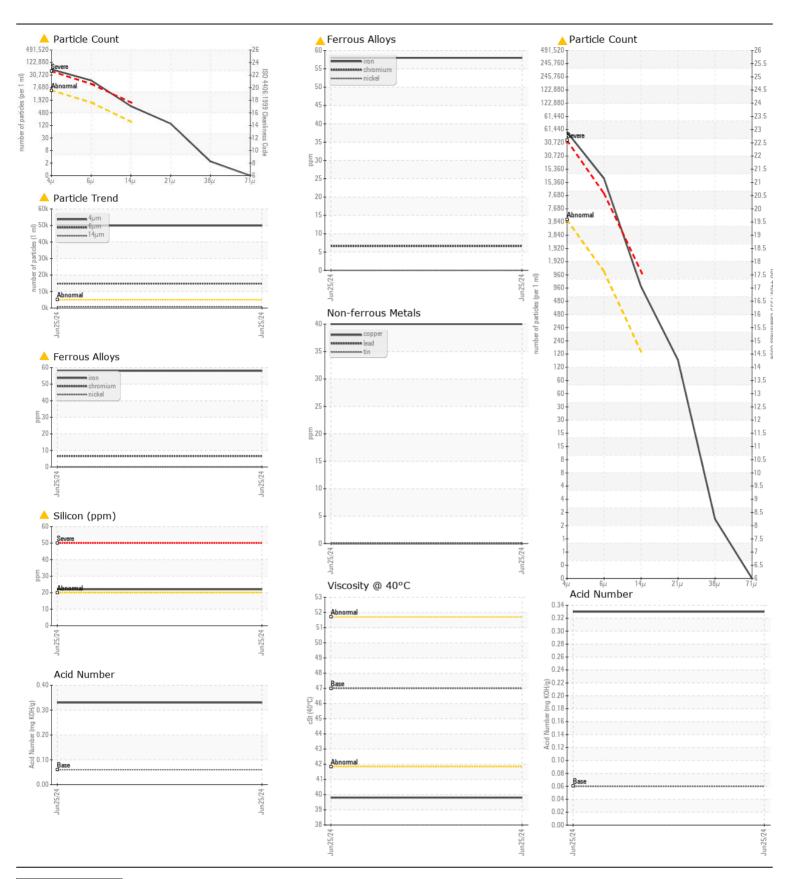
[W68113]

C350E310336

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (50 GAL)

HITACHI HYDRAULIC SUPER EX 46HN (50 GA	· <b>′</b>						
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: W68113 )	Sample Number		Client Info		JR0219741		
	Sample Date		Client Info		25 Jun 2024		
	Machine Age	hrs	Client Info		8800		
	Oil Age	hrs	Client Info		8800		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		21		
	Iron	ppm	ASTM D5185m	>20	<b>△</b> 58		
The iron level is abnormal.	Chromium	ppm	ASTM D5185m		7		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	8		
	Lead	ppm	ASTM D5185m	>10	0		
	Copper	ppm	ASTM D5185m	>75	40		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	<u>^</u> 22		
CONTAININATION	Potassium	ppm	ASTM D5185m		2		
There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Water	ррпп	WC Method		NEG		
	Particles >4µm		ASTM D7647		▲ 49906		
	Particles >6µm		ASTM D7647		▲ 14814		
	Particles >14µm		ASTM D7647		▲ 876		
	Particles >21µm		ASTM D7647		<u> </u>		
	Particles >38µm		ASTM D7647		2		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 23/21/17		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG		
ELLID CONDITION	011		AOTM DE405		• • • • • • • • • • • • • • • • • • • •		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		1		
	Calcium	ppm			<1 67		
		ppm	ASTM D5185m	927	67 361		
	Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		361 405		
	Sulfur	ppm	ASTM D5185m		405 2184		
		ppm mg KOH/g	ASTM D3163111		0.33		
	Acid Number (AN) Visc @ 40°C	cSt	ASTM D0045		39.8		





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 11099291

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0219741 : 06221094

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

: 27 Jun 2024

: 26 Jun 2024

: 27 Jun 2024 - Don Baldridge

9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

JRE - CHARLOTTE

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)