WEAR CONTAMINATION FLUID CONDITION

NORMAL
ATTENTION
NORMAL

Machine Id

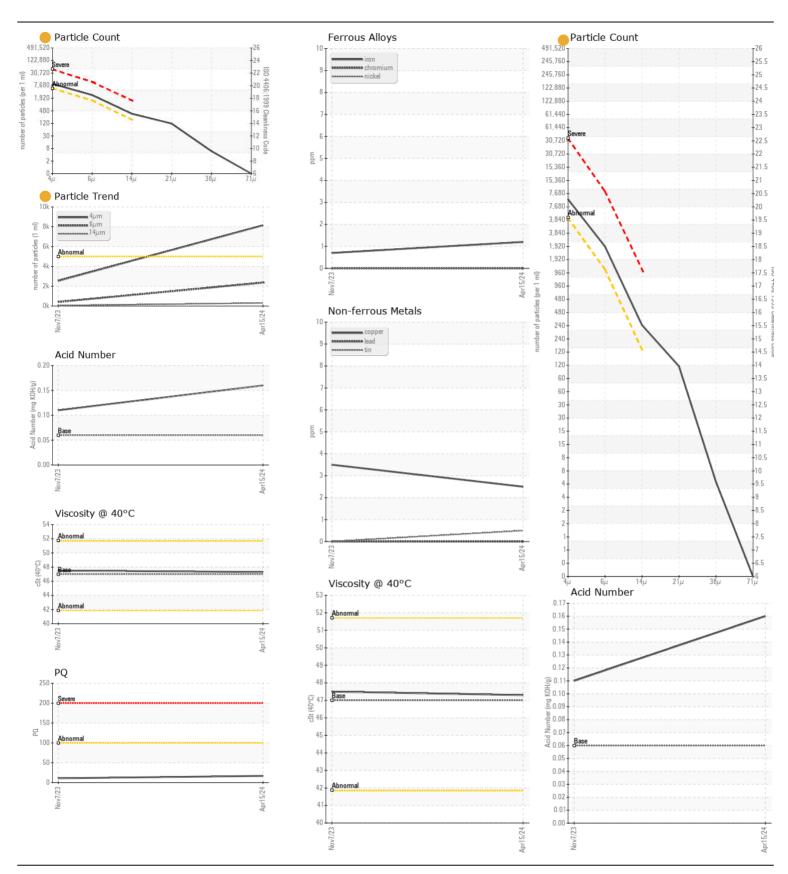
1FF250PAPPF000110

Component

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

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.	Sample Number		Client Info		JR0206330	JR0189122	
	Sample Date		Client Info		15 Apr 2024	07 Nov 2023	
	Machine Age	hrs	Client Info		1012	506	
	Oil Age	hrs	Client Info		1012	506	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				ATTENTION	NORMAL	
WEAR	PQ		ASTM D8184		17	11	
	Iron	ppm	ASTM D5185m	>20	1	<1	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	<1	0	
	Lead	ppm	ASTM D5185m	>10	0	0	
	Copper	ppm	ASTM D5185m		2	4	
	Tin	ppm	ASTM D5185m	>10	<1	0	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1	<1	
	Potassium	ppm	ASTM D5185m		3	2	
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	ррпп	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		8145	2539	
	Particles >6µm		ASTM D7647		2365	407	
	Particles >14μm		ASTM D7647		303	49	
	Particles >21μm		ASTM D7647		103	12	
	Particles >38µm		ASTM D7647		5	0	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		20/18/15	19/16/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
The ANI level is accordable for this first. The condition of the cities	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		0	<1	
	Calcium	ppm	ASTM D5185m		11	4	
	Phosphorus	ppm	ASTM D5185m		549	597	
	Zinc	ppm	ASTM D5185m		27	44	
	Sulfur	ppm	ASTM D5185m		162	174	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.16	0.11	
	Visc @ 40°C	cSt	ASTM D445	47	47.3	47.5	





Certificate L2367

Laboratory Sample No. Lab Number

: JR0206330 : 06152973 Unique Number : 10983051

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

Received

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

: 19 Apr 2024 : 22 Apr 2024 - Don Baldridge

: 18 Apr 2024

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)