WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL

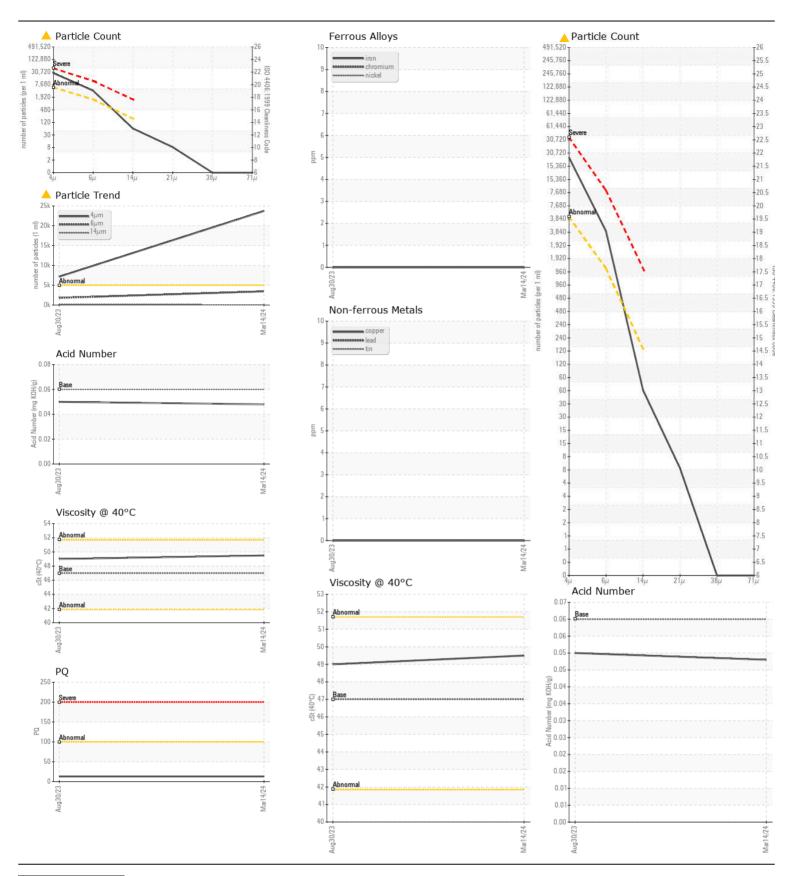
Machine Id

A30G753396

Component Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info		JR0205594	JR0178420	
	Sample Date	la una	Client Info		14 Mar 2024	30 Aug 2023	
	Machine Age	hrs	Client Info		1368	565	
	Oil Age	hrs	Client Info		1368	565	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed ABNORMAL		
	Sample Status				ABNORMAL	ATTENTION	
WEAR	PQ		ASTM D8184		13	13	
	Iron	ppm	ASTM D5185m	>20	0	0	
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		0	0	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	3	1	
CONTAIVIINATION	Potassium	ppm	ASTM D5185m		0	<1	
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		▲ 23714	7157	
	Particles >6µm		ASTM D7647		▲ 3445	1809	
	Particles >14µm		ASTM D7647		54	119	
	Particles >21µm		ASTM D7647		7	26	
	Particles >38µm		ASTM D7647		0	1	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 22/19/13	20/18/14	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0	0	
FLUID CONDITION	Boron	ppm	ASTM D5185m		0 2	0 6	
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		0	2	
	Molybdenum	ppm	ASTM D5185m		3	7	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		0	21	
	Calcium	ppm	ASTM D5185m		21	42	
	Phosphorus	ppm	ASTM D5185m	827	675	658	
	Zinc	ppm	ASTM D5185m		10	35	
	Sulfur	ppm	ASTM D5185m		3	99	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.048	0.05	
	Visc @ 40°C	cSt	ASTM D445		49.5	49.0	





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10936404

: JR0205594 : 06122253

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

: 19 Mar 2024 Tested Diagnosed

: 20 Mar 2024 : 20 Mar 2024 - Wes Davis

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP

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

Test Package : CONST (Additional Tests: PQ) 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)