WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL

[W50231]

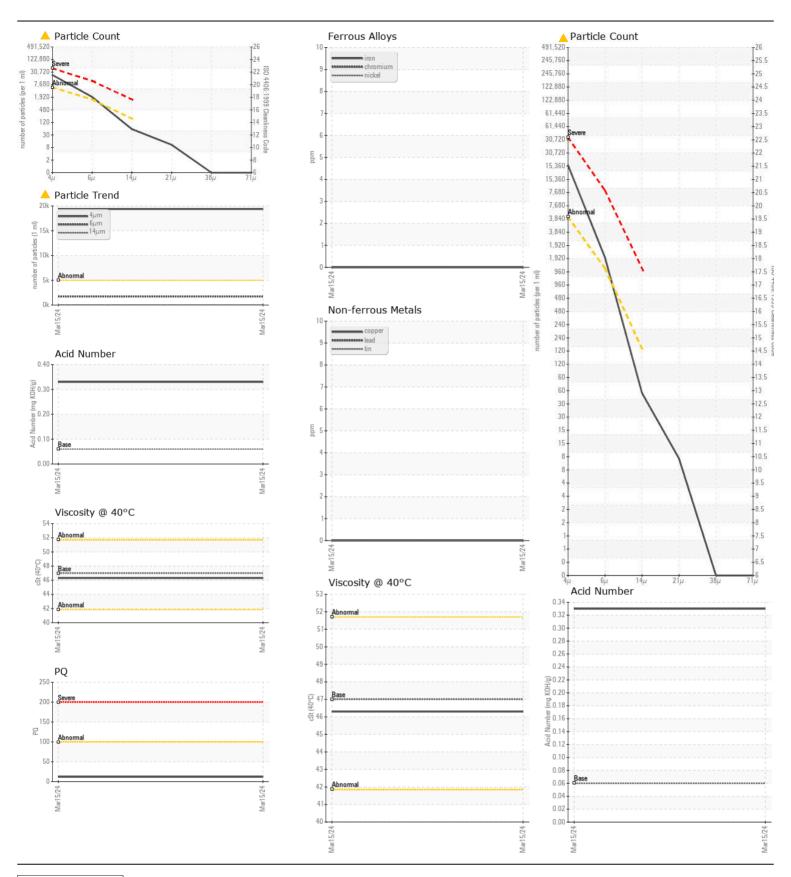
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Component Hydraulic System

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

HITACHI HYDRAULIC SUPER EX 46HN (GA	.L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0200338		
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 Date		Client Info		15 Mar 2024		
	Machine Age	hrs	Client Info		441		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD	DO		ASTM D8184		12		
WEAR	PQ Iron	nnm	ASTM D8184 ASTM D5185m	- 20	0		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		19371		
	Particles >6µm		ASTM D7647		1730 50		
	Particles >14µm		ASTM D7647		9		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/18/13		
	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		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
ELLID CONDITION	0 "		AOTH DE LOS				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0		
	Manganese Magnesium	ppm	ASTM D5185m		<1 0		
	Calcium	ppm	ASTM D5165III		40		
	Phosphorus	ppm	ASTM D5185m	827	230		
	Zinc	ppm	ASTM D5185m		293		
	Sulfur	ppm	ASTM D5185m		11269		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.33		
	Visc @ 40°C	cSt	ASTM D445		46.3		
	1.00 @ 10 0	001			.5.0		

Contact/Location: DAVID ZIEG - JAMASH





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10936406

: JR0200338 : 06122255

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 Tested : 20 Mar 2024

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 21 Mar 2024 - Don Baldridge

ASHLAND, VA US 23005 Contact: DAVID ZIEG

11047 LEADBETTER RD

JRE - ASHLAND

dzieg@jamesriverequipment.com T: (804)798-6001

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.

F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Contact/Location: DAVID ZIEG - JAMASH