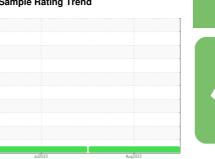


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



7013452 (S/N 1FF085GXKMJ022386)

Front Right Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (---

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Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

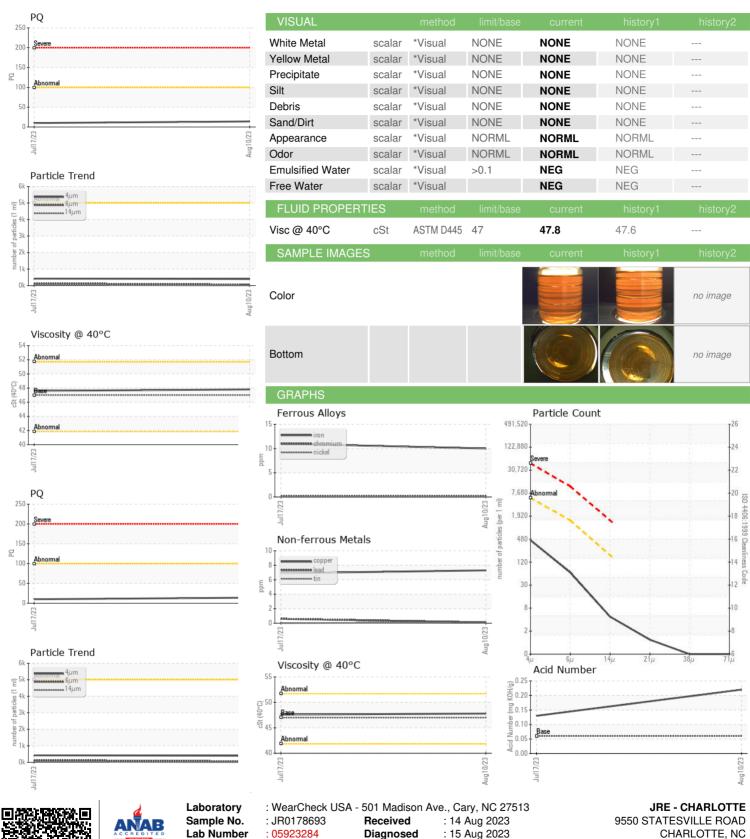
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

GAL)			Jul2023	Aug ² 023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0178693	JR0171090	
Sample Date		Client Info		10 Aug 2023	17 Jul 2023	
Machine Age	hrs	Client Info		1752	1718	
Oil Age	hrs	Client Info		1752	1718	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	10	
Iron	ppm	ASTM D5185m	>20	10	11	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	2	
Lead	ppm	ASTM D5185m	>10	<1	<1	
Copper	ppm	ASTM D5185m	>75	7	7	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		10	5	
Calcium	ppm	ASTM D5185m		29	31	
Phosphorus	ppm	ASTM D5185m	827	407	404	
Zinc	ppm	ASTM D5185m	0	138	134	
Sulfur	ppm	ASTM D5185m	13	951	948	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	<1	1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	397	420	
Particles >6µm		ASTM D7647	>1300	57	131	
Particles >14µm		ASTM D7647	>160	4	25	
Particles >21µm		ASTM D7647	>40	1	8	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/9	16/14/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.22	0.13	



OIL ANALYSIS REPORT







Certificate L2367

Lab Number **Unique Number**

: 10603231

Diagnosed

: 15 Aug 2023 Diagnostician : Wes Davis

Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com

T: (704)597-0211

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)

Test Package : CONST (Additional Tests: PQ)

F: (704)596-6198

US 28269