

# {UNASSIGNED}

## 314050

#### Component Hydraulic System

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

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.



All component wear rates are normal.

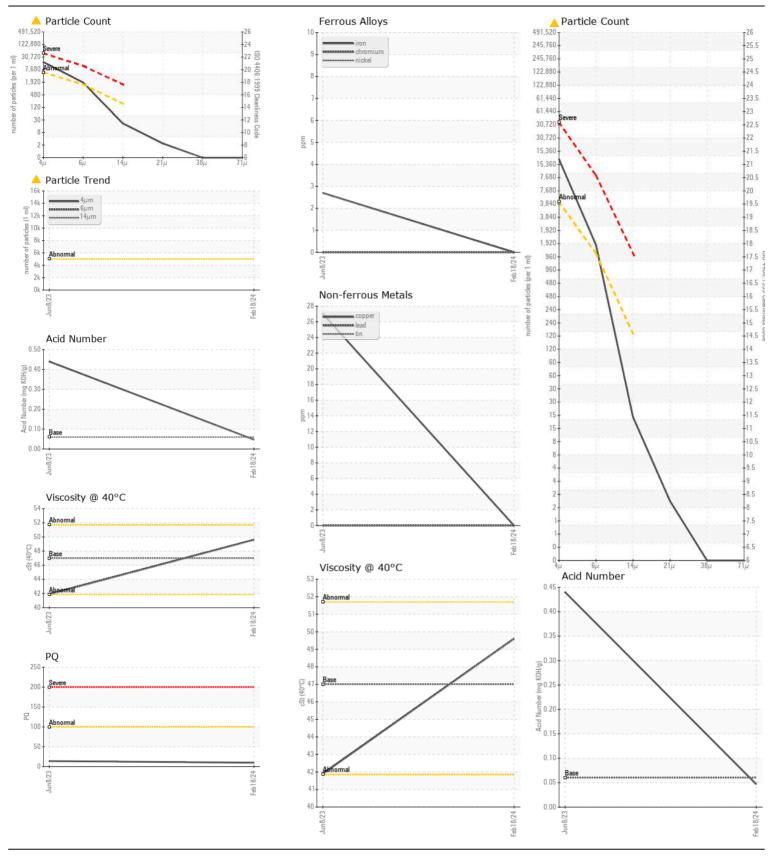
#### CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204371	JR0171513	
Sample Date		Client Info		18 Feb 2024	08 Jun 2023	
Machine Age	hrs	Client Info		5497	5036	
Oil Age	hrs	Client Info		5497	5036	
Filter Age	hrs	Client Info		0	5036	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184		10	14	
Iron	ppm	ASTM D5185m	>20	0	3	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	10	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	0	27	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m				
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	2	2	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	PP···	WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000	A 15307		
Particles >6µm		ASTM D7647	>1300	<b>1622</b>		
Particles >14µm		ASTM D7647	>160	18		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/18/11		
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	A MODER	
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	
				•	4	
Sodium	ppm	ASTM D5185m		0	<1	
Boron	ppm	ASTM D5185m		6	0	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		5	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		20	0	
Calcium	ppm	ASTM D5185m	007	42	42	
Phosphorus	ppm	ASTM D5185m		685	387	
Zinc	ppm	ASTM D5185m	0	29 85	407	
Sulfur	ppm	ASTM D5185m	13	85	1154	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.047	0.44	
Visc @ 40°C	cSt	ASTM D445	47	49.6	41.9	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - CHARLOTTE** 回命 : JR0204371 : 23 Feb 2024 9550 STATESVILLE ROAD Sample No. Received Lab Number : 06099074 Tested CHARLOTTE, NC : 26 Feb 2024 : 26 Feb 2024 - Don Baldridge Unique Number : 10897304 US 28269 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 F: (704)596-6198 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)