WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

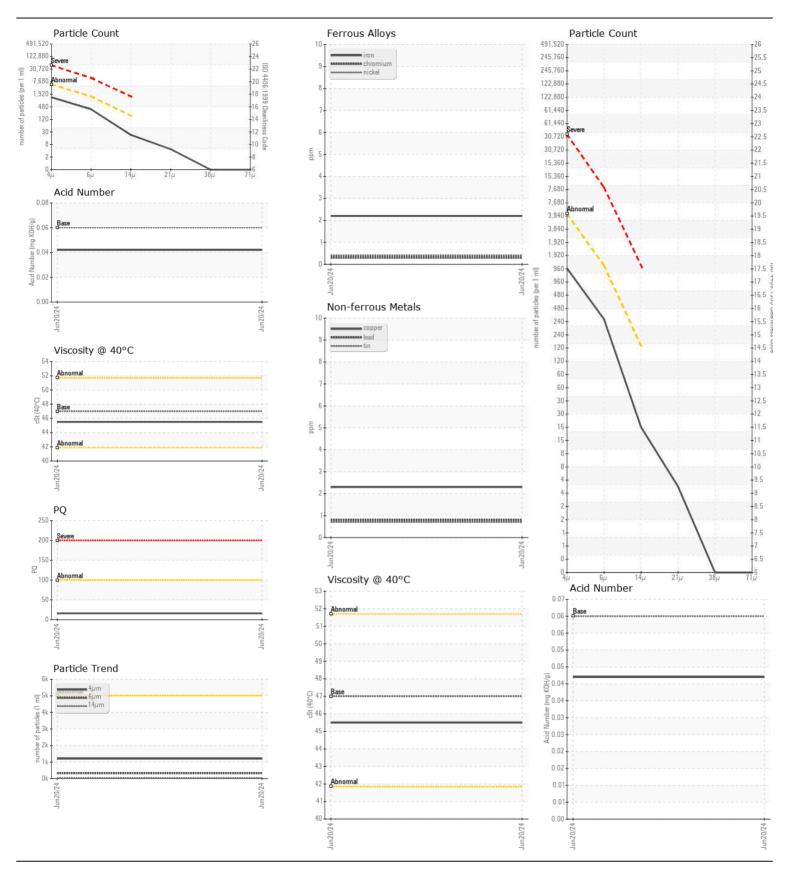
## HITACHI HCMDHD60C00000010

Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0211407		
	Sample Date		Client Info		20 Jun 2024		
	Machine Age	hrs	Client Info		284		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	PQ		ASTM D8184		16		
	Iron	ppm	ASTM D5185m	>20	2		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>10	3		
	Lead	ppm	ASTM D5185m	>10	<1		
	Copper	ppm	ASTM D5185m	>75	2		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	>20	2		
CONTAININATION	Potassium	ppm	ASTM D5185m		2		
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water	ррпп	WC Method		NEG		
	Particles >4µm		ASTM D7647		1205		
	Particles >6µm		ASTM D7647		319		
	Particles >14µm		ASTM D7647		19		
	Particles >21μm		ASTM D7647		4		
	Particles >38μm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		17/15/11		
	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		*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0		
-LOID CONDITION	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is	Barium	ppm	ASTM D5185m				
suitable for further service.		ppm			2		
	Manganoso	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m ASTM D5185m		<1 4		
	Calcium Phosphorus	ppm		927			
	Zinc	ppm	ASTM D5185m ASTM D5185m		549 66		
	Sulfur	ppm	ASTM D5185m		66 172		
		ppm ma K∩⊔/a			172		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.042		
	Visc @ 40°C	cSt	ASTM D445	4/	45.5		

Contact/Location: DAVID ZIEG - JAMASH





Certificate L2367

Report Id: JAMASH [WUSCAR] 06216767 (Generated: 06/24/2024 14:58:05) Rev: 1

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211407 : 06216767

Received **Tested** Unique Number : 11089631 Diagnosed

Test Package : CONST ( Additional Tests: PQ )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 21 Jun 2024

: 24 Jun 2024

: 24 Jun 2024 - Don Baldridge

\* - 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)

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JRE - ASHLAND