

[W47882] Machine Id HITACHI 85USB-5 HCMDEF60K00021559 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (27 GAL)

RECOMMENDATION

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. (Customer Sample Comment: W47882)



All component wear rates are normal.

CONTAMINATION

There is a moderate 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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202337	JR0181418	JR0163825
Sample Date		Client Info		26 Feb 2024	08 Aug 2023	09 Mar 2023
Machine Age	hrs	Client Info		2145	1469	900
Oil Age	hrs	Client Info		2145	1469	0
Filter Age	hrs	Client Info		2145	1469	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	ABNORMAL
DO				40		47
PQ		ASTM D8184	00	13	14	17
Iron	ppm	ASTM D5185m	>20	8	1/	0
Chromium	ppm	ASTM D5185m	>10	<1	<	0
NICKEI	ppm	ASTM D5185m	>10	0	< 1	0
Filter	ppm	ASTM D5105III		0	0	0
Aluminum	ррп	ASTM D5105III	. 10	0	0	0
Aluminum	ppm	ASTM D5105III	>10	2	< 1	< 1
Leau	ррп		>10	7	2	0
Copper	ppm	ASTM D5185m	>/5	7	14	0
	ppm	ASTM D5185m	>10	0	< 1	0
Vanadium	ppm	ASTM D5185m				
Velley Metel	scalar	*Misual	NONE	NONE	NONE	NONE
reliow wetai	scalar	visuai	NONE	NONE	INOINE	NONE
Silicon	nom	ASTM D5185m	>20	1	4	2
Potassium	ppm	ASTM D5185m	>20	<1	4	0
Water	PP	WC Method	>0.1	NEG	NEG	NEG
Particles >4um		ASTM D7647	>5000	5378	5785	18773
Particles >6um		ASTM D7647	>1300	1680	1184	2286
Particles >14um		ASTM D7647	>160	157	28	35
Particles >21um		ASTM D7647	>40	50	4	6
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	20/17/12	 21/18/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	6	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		8	0	0
Molybdenum	ppm	ASTM D5185m		0	2	0
Manganese	ppm	ASTM D5185m		0	2	<1
Magnesium	ppm	ASTM D5185m		6	13	6
	ppm	ASTM D5185m	007	118	247	3
Phosphorus	ppm	ASTM D5185m	827	435	389	547
∠INC	ppm	ASTM D5185M	0	65	106	2
Sullur Acid Number (AN)	ppm		13	803	1812	0 10
Acid Number (AN)	itig KUH/g	ASTM D445	0.06	0.14	0.20	0.12
	COL	ASTIVI D445	4/	47.5	40.9	47.8



Test Package : CONST (Additional Tests: PQ) Contact: FAYETTEVILLE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com * - 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)

Submitted By: Justin Jackson

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