

## WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION SEVERE

# Store 9 - Marietta [141328]

### FF450DX913173

#### Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (85)

#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

## CONTAMINATION

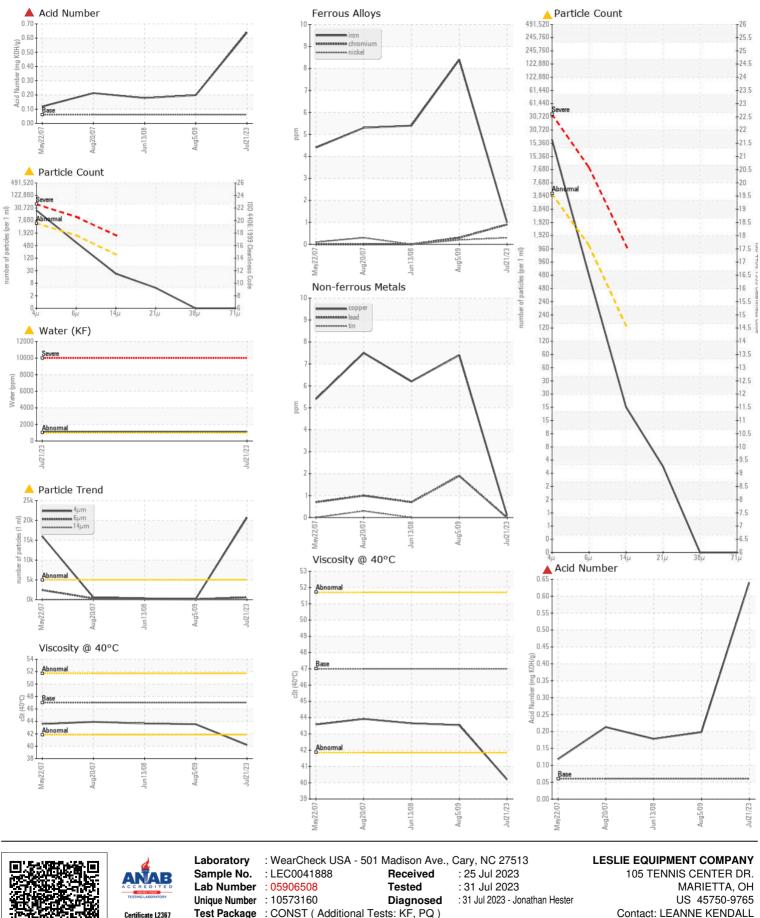
Appearance is hazy. There is a high amount of silt (particulates < 6 microns in size) present in the oil. There is a light concentration of water present in the oil.

#### **FLUID CONDITION**

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The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Т	est	UOM	Method	Limit/Abn	Current	History1	History2
S	ample Number		Client Info		LEC0041888	LEC020245	LEC3228
S	Sample Date		Client Info		21 Jul 2023	05 Aug 2009	13 Jun 2008
Ν	lachine Age	hrs	Client Info		13378	2358	1536
С	Dil Age	hrs	Client Info		1000	2388	1536
F	ilter Age	hrs	Client Info		250	632	1536
С	Dil Changed		Client Info		Not Changd	Not Changd	Not Changd
F	ilter Changed		Client Info		Not Changd	Changed	Not Changd
S	Sample Status				SEVERE	NORMAL	NORMAL
	ŶQ		ASTM D8184		11		
	ron	ppm	ASTM D5185m	>20	1	8	5
	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
	lickel	ppm	ASTM D5185m	>10	<1	<1	0
	itanium	ppm	ASTM D5185m		0	0	0
-	Silver	ppm	ASTM D5185m	10	0	0	0
	luminum	ppm	ASTM D5185m	>10	<1	1	<1
	ead	ppm	ASTM D5185m	>10 >75	0	2 7	<1 6
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		<1 0	0	0
	in /anadium	ppm	ASTM D5185m ASTM D5185m	>10	1	0	0
	Vhite Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Ville Metal		*Visual	NONE	NONE	NONE	NONE
		scalar	visual	NONE		NONE	NONE
S	Silicon	ppm	ASTM D5185m	>20	2	5	4
Ρ	otassium	ppm	ASTM D5185m	>20	5	<1	0
٧	Vater	%	ASTM D6304	>0.1	<b>A</b> 0.107		
р	pm Water	ppm	ASTM D6304	>1000	<b>A</b> 1078.7		
	articles >4µm		ASTM D7647	>5000	<b>A</b> 20721	196	319
P	Particles >6µm		ASTM D7647	>1300	598	107	174
Ρ	articles >14µm		ASTM D7647	>160	19	18	29
Ρ	articles >21μm		ASTM D7647	>40	4	6	10
	articles >38μm		ASTM D7647	>10	0	0	1
	articles >71μm		ASTM D7647	>3	0	0	0
-	Dil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	15/14/11	15/15/12
-	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	ppearance	scalar	*Visual	NORML	HAZY	NORML	NORML
	Ddor	scalar	*Visual	NORML	NORML	NORML	NORML
E	mulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
S	Sodium	ppm	ASTM D5185m		33	<1	0
	Boron	ppm	ASTM D5185m		0	2	0
	Barium	ppm	ASTM D5185m		<1	<1	0
Ν	lolybdenum	ppm	ASTM D5185m		0	2	1
Ν	langanese	ppm	ASTM D5185m		0	<1	0
Ν	lagnesium	ppm	ASTM D5185m		<1	19	26
С	Calcium	ppm	ASTM D5185m		10	73	90
Ρ	hosphorus	ppm	ASTM D5185m	827	22	363	375
Z	linc	ppm	ASTM D5185m	0	51	97	85
	Sulfur	ppm	ASTM D5185m	13	48	1438	796
	cid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.64</b>	0.198	0.178
V	/isc @ 40°C	cSt	ASTM D445	47	40.2	43.54	43.65



Test Package : CONST (Additional Tests: KF, PQ) Certificate L2367

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) F: (740)373-5570

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