

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.

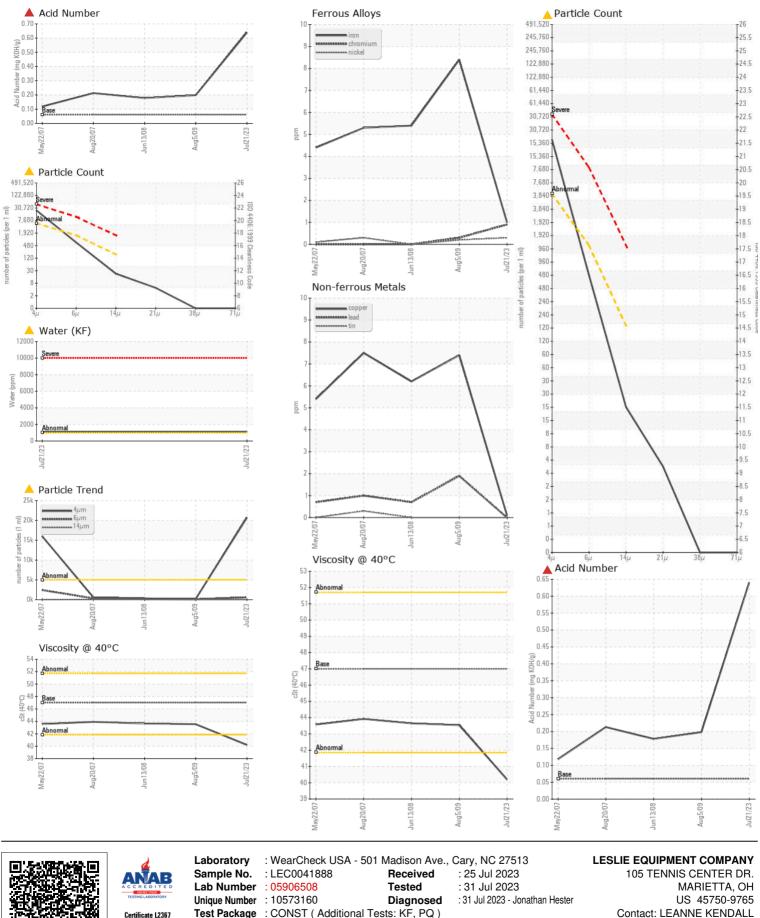
CONTAMINATION

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

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	A 0.107		
р	pm Water	ppm	ASTM D6304	>1000	A 1078.7		
	articles >4µm		ASTM D7647	>5000	A 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	0.64	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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