



DEMOSPEC LIEBHERR R940 056182 Component Hydraulic System

LIEBHERR HYDRAULIC HVI (376 LTR)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0279224		
	Sample Date		Client Info		03 Jan 2024		
	Machine Age	hrs	Client Info		571		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
WEAR All component wear rates are normal.	Iron	nnm	ASTM D5185(m)	<>50	10		
	Chromium	ppm ppm	ASTM D5185(m)		<1		
	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)	20	0		
	Silver		ASTM D5185(m)		0		
	Aluminum	ppm ppm	ASTM D5185(m)	>8	1		
	Lead	ppm	ASTM D5185(m)		۰ <1		
	Copper	ppm	ASTM D5185(m)		8		
	Tin	ppm	ASTM D5185(m)	>5	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	4		
There is a light amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>20000	<b>28057</b>		
	Particles >6µm		ASTM D7647	>5000	3984		
	Particles >14µm		ASTM D7647	>640	57		
	Particles >21µm		ASTM D7647	>160	9		
	Particles >38µm		ASTM D7647	>40	1		
	Particles >71µm		ASTM D7647	>10	1		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/19/13</b>		
	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	scalar	Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185(m)		1		
FLUID CONDITION	Boron	ppm	ASTM D5185(m) ASTM D5185(m)	0	י <1		
The condition of the oil is acceptable for the time in service.	Barium	ppm ppm	ASTM D5185(m) ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)		0 <1		
	Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)		41		
	Calcium		ASTM D5185(m) ASTM D5185(m)		820		
	Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	611	820 549		
	Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	696	549 644		
	Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)		3295		
		ppm		40	5295		

Visc @ 40°C

cSt

ASTM D7279(m) 46

39.9



