

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



LIEBHERR PR766 24176

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.

WEAR

All component wear rates are normal.

CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

The oil viscosity is higher than typical. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0238154	LH0151017	
Sample Date		Client Info		29 Mar 2024	04 Dec 2023	
Machine Age	hrs	Client Info		6049	4477	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>20	4	10	
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	<1	
Aluminum	ppm	ASTM D5185(m)	>10	1	2	
Lead	ppm	ASTM D5185(m)	>10	<1	2	
Copper	ppm	ASTM D5185(m)	>75	9	23	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	VLITE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>20	3	10	
Potassium	ppm	ASTM D5185(m)	>20	7	3	
Water	PP	WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>20000	2739	4946	
Particles >6µm		ASTM D7647	>5000	1028	1552	
Particles >14µm		ASTM D7647	>640	125	108	
Particles >21µm		ASTM D7647	>160	27	26	
Particles >38µm		ASTM D7647	>40	1	2	
Particles >71µm		ASTM D7647	>10	0	1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/17/14	19/18/14	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
				_		
Sodium	ppm	ASTM D5185(m)	-	5	3	
Boron	ppm	ASTM D5185(m)	5	<1	<1	
Barium	ppm	ASTM D5185(m)	5	0	<1	
Molybdenum	ppm	ASTM D5185(m)	5	0	0	
Manganese	ppm	ASTM D5185(m)	05	<1	0	
Magnesium	ppm	ASTM D5185(m)	25	<1	3	
			200		17	
Calcium	ppm	ASTM D5185(m)		48		
Phosphorus	ppm	ASTM D5185(m)	300	301	136	

Visc @ 40°C

cSt

ASTM D7279(m) 32

25.5

37.1



