

Machine Id LH80 Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

WEAR

Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

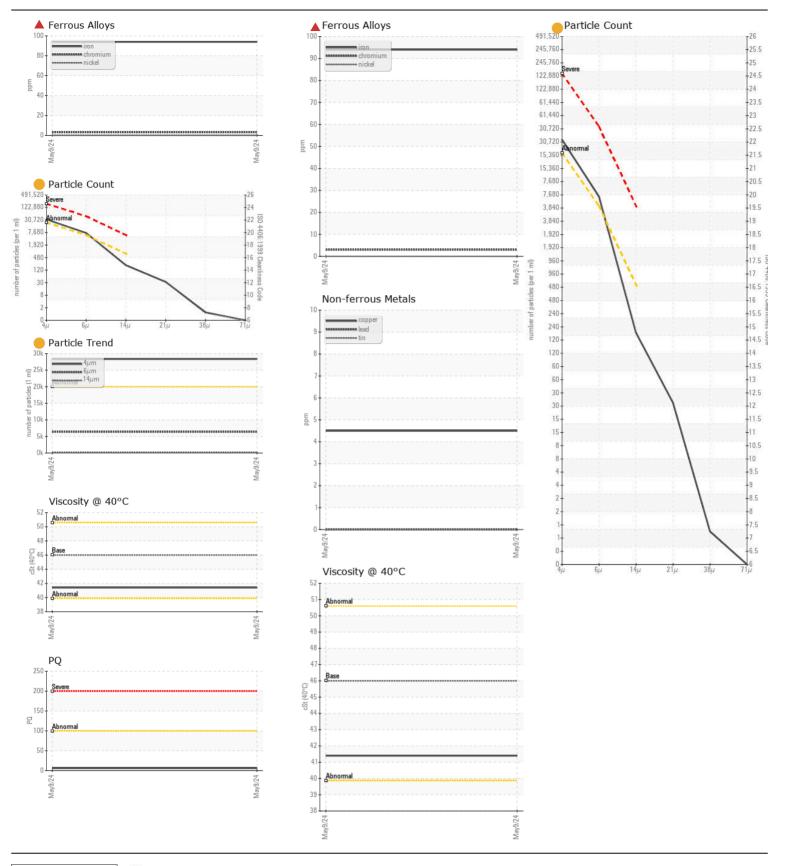
There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present.

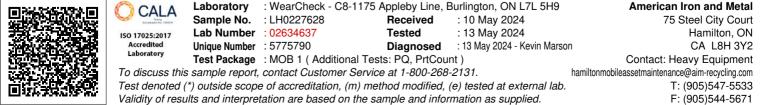
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FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn		urrent	History1	History2
Sample Number		Client Info			10227628		
Sample Date		Client Info			May 2024		
Machine Age	hrs	Client Info		0			
Oil Age	hrs	Client Info		0			
Filter Age	hrs	Client Info		0			
Oil Changed		Client Info			ot Changd		
Filter Changed		Client Info		N/			
Sample Status				S	EVERE		
PQ		ASTM D8184*			6		
Iron	ppm	ASTM D5185(m)	>20		94		
Chromium	ppm	ASTM D5185(m)	>10		3		
Nickel	ppm	ASTM D5185(m)	>10		0		
Titanium	ppm	ASTM D5185(m)	1.0		0		
Silver	ppm	ASTM D5185(m)			0		
Aluminum	ppm	ASTM D5185(m)	>10		- <1		
Lead	ppm	ASTM D5185(m)	>10		0		
Copper	ppm	ASTM D5185(m)	>75		4		
Tin	ppm	ASTM D5185(m)	>10		0		
Vanadium	ppm	ASTM D5185(m)			0		
White Metal	scalar	Visual*	NONE		NONE		
Yellow Metal	scalar	Visual*	NONE		NONE		
Silicon	ppm	ASTM D5185(m)	>20	_	2		
Potassium	ppm	ASTM D5185(m)	>20		<1		
Water		WC Method	>0.1		NEG		
Particles >4µm		ASTM D7647	>20000		28358 6387		
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>5000 >640		181		
Particles >14µm		ASTM D7647 ASTM D7647	>040		29		
Particles >38µm		ASTM D7647	>40		1		
Particles >71µm		ASTM D7647	>10		0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16		22/20/15		
Silt	scalar	Visual*	NONE		NONE		
Debris	scalar	Visual*	NONE		NONE		
Sand/Dirt	scalar	Visual*	NONE		NONE		
Appearance	scalar	Visual*	NORML		WGOIL		
Odor	scalar	Visual*	NORML		NORML		
Emulsified Water	scalar	Visual*	>0.1		.2%		
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Sodium	ppm	ASTM D5185(m)	-	_	2		
Boron	ppm	ASTM D5185(m)	5		2		
Barium	ppm	ASTM D5185(m)	5		0		
Molybdenum	ppm	ASTM D5185(m)	5		0 2		
Manganese Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)	25		2		
Calcium	ppm	ASTM D5185(m)	200		336		
Phosphorus	ppm ppm	ASTM D5185(m)	300		395		
Zinc	ppm	ASTM D5185(m)	370		493		
Sulfur	ppm	ASTM D5185(m)	2500		1824		
Visc @ 40°C	cSt	ASTM D7279(m)	46		41.4		
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Contact/Location: Heavy Equipment ? - AMEHAM Page 2 of 2