

Machine Id **100-003** Component **Hydraulic System** Fluid **{not provided} (--- GAL)**

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0232566		
Sample Date		Client Info		30 Mar 2023		
Machine Age	hrs	Client Info		1000		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>20	8		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	3		
Lead	ppm	ASTM D5185(m)	>10	4		
Copper	ppm	ASTM D5185(m)	>75	11		
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	14		
Potassium	ppm	ASTM D5185(m)	>20	2		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	<b>A</b> 30292		
Particles >6µm		ASTM D7647	>1300	<b>e</b> 1572		
Particles >14µm		ASTM D7647	>160	66		
Particles >21µm		ASTM D7647	>40	17		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/18/13		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.1	NEG		
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Sodium	ppm	ASTM D5185(m)		2		
Boron	ppm	ASTM D5185(m)		2		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		1		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		22		
Calcium	ppm	ASTM D5185(m)		3623		
Phosphorus	ppm	ASTM D5185(m)		759		
Zinc	ppm	ASTM D5185(m)		861		
Sulfur	ppm	ASTM D5185(m)		5568		
Visc @ 40°C	cSt	ASTM D7279(m)		38.5		



