

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id SMART SEGMENT Component Hydraulic System

SHELL FRWG 46 HP (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

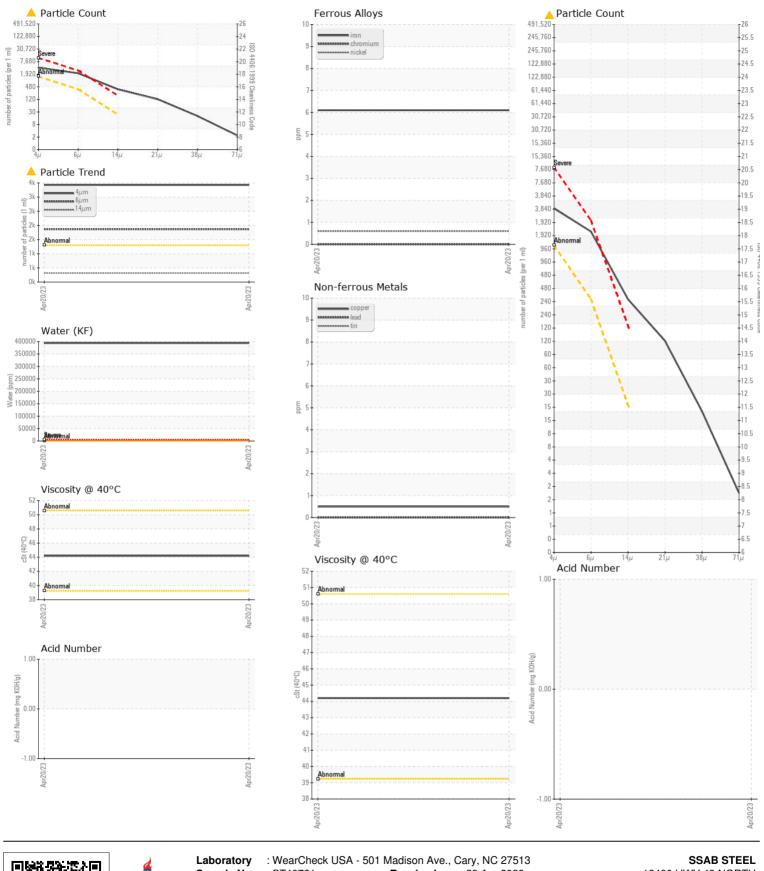
CONTAMINATION

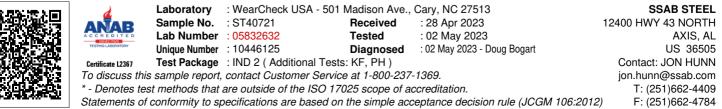
There is a high amount of particulates present in the fluid.

FLUID CONDITION

Water content is normal. The pH level of this fluid is within the acceptable limits at 7.0. The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ST40721		
Sample Date		Client Info		20 Apr 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>40	6		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>4	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>60	<1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Ciliaan				.4		
Silicon	ppm	ASTM D5185m	>20	<1 2		
Potassium	ppm	ASTM D5185m	>20	-		
Water	%	ASTM D6304	>0.05	39.4		
ppm Water	ppm	ASTM D6304	>500	394000		
Particles >4µm		ASTM D7647	>1300 >320	▲ 3428 ▲ 1907		
Particles >6µm		ASTM D7647		▲ 1867 ▲ 010		
Particles >14µm		ASTM D7647	>20 >4	▲ 318 ▲ 107		
Particles >21µm		ASTM D7647		▲ 107 ▲ 17		
Particles >38µm		ASTM D7647	>3	▲ 17 0		
Particles >71µm		ASTM D7647	>3	2		
Oil Cleanliness	eeeler	ISO 4406 (c)	>17/15/11	A 19/18/15		
Silt Debris	scalar scalar	*Visual *Visual	NONE	NONE NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
	scalar	*Visual	NORML	_		
Appearance Odor	scalar	*Visual	NORML	NORML NORML		
Emulsified Water	scalar	*Visual	>0.05	0.2%		
	Scalal	visual	>0.05	U.2 <i>7</i> 0		
Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m		5		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		4		
Calcium	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		17		
Zinc	ppm	ASTM D5185m		2		
Sulfur	ppm	ASTM D5185m		212		
pН	Scale 0-14	ASTM D1287		7.00		
Visc @ 40°C	cSt	ASTM D445		44.2		





Contact/Location: JON HUNN - IPSAXI