

## **OIL ANALYSIS REPORT**

Machine Id **CR-3305** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)** 

### DIAGNOSIS

#### Recommendation

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

#### Wear

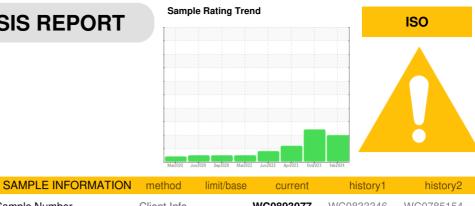
All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



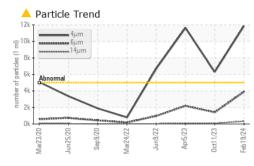
0 I N I					111000000010	14/00/20/54/54
Sample Number		Client Info		WC0893077	WC0833346	WC0785154
Sample Date		Client Info		19 Feb 2024	11 Oct 2023	05 Apr 2023
Machine Age	hrs	Client Info		10157	9267	8087
Oil Age	hrs	Client Info		0 Nat Oberryd	0 Nat Observal	1000
Oil Changed		Client Info		Not Changd ABNORMAL	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	0	1	<1
Copper	ppm	ASTM D5185m	>75	4	10	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	2	0
Barium	ppm	ASTM D5185m	5	8	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	2
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	25	8	0	6
Calcium	ppm	ASTM D5185m	200	92	28	89
Phosphorus	ppm	ASTM D5185m	300	346	<b>A</b> 77	327
Zinc	ppm	ASTM D5185m	370	411	<b>A</b> 89	442
Sulfur	ppm	ASTM D5185m	2500	3209	789	3283
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	4	<1
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	1	0	1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 11865	<b>▲</b> 6308	11628
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>1</b> 416	<b>1</b> 2198
Particles >14µm		ASTM D7647	>160	<b>A</b> 335	70	82
Particles >21µm		ASTM D7647	>40	<b>A</b> 76	14	15
Particles >38µm		ASTM D7647	>10	3	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/19/16	▲ 20/18/13	<b>2</b> 1/18/14
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.44	0.16	0.39
0.47.40) David			0			

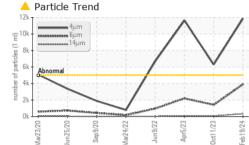
Report Id: BUCWILTX [WUSCAR] 06100879 (Generated: 02/27/2024 18:47:40) Rev: 1

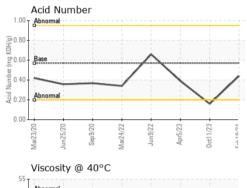
Contact/Location: JOHN HAWKINS - BUCWILTX

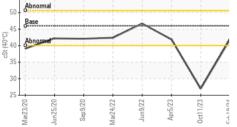


# **OIL ANALYSIS REPORT**

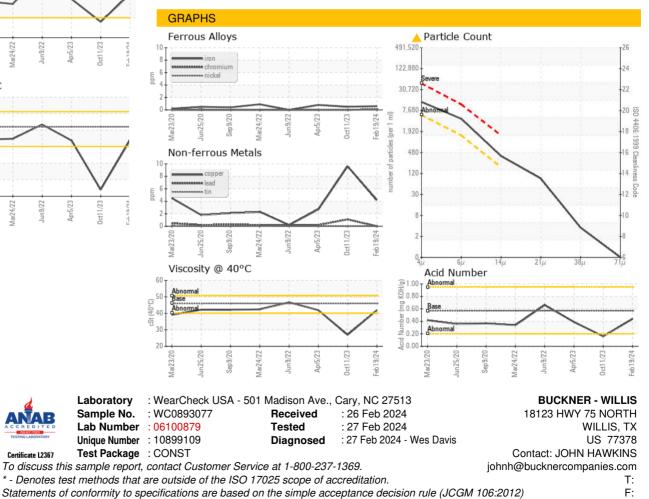








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	41.9	▲ 27.0	41.9
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom					( child	



Contact/Location: JOHN HAWKINS - BUCWILTX