

OIL ANALYSIS REPORT



Machine Id **40-99** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

DIAGNOSIS

A Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

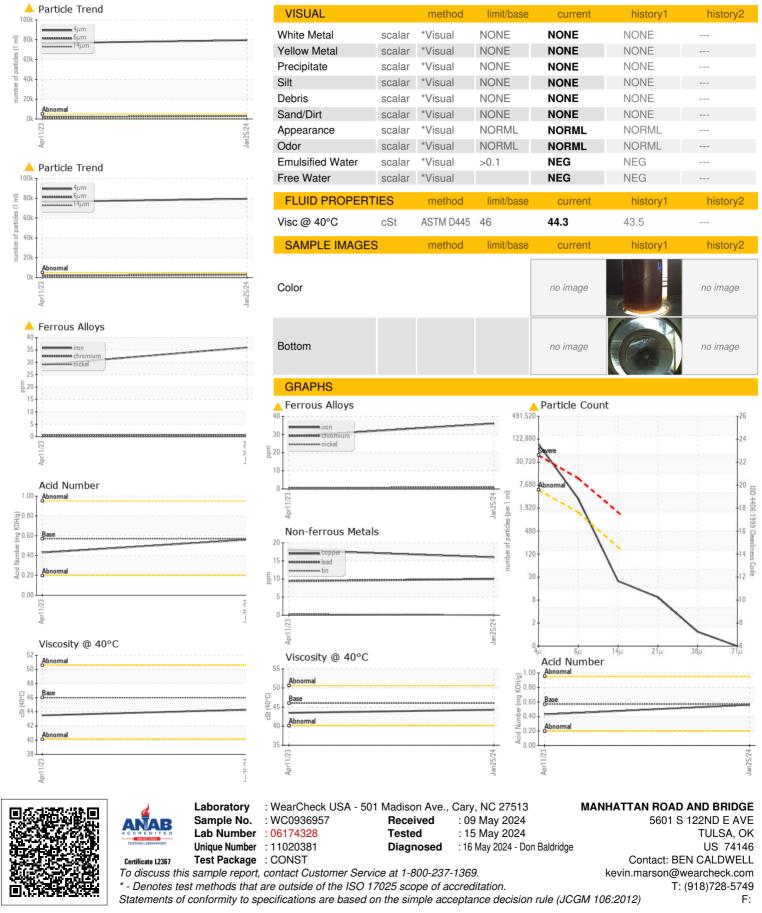
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936957	WC0619833	
Sample Date		Client Info		25 Jan 2024	11 Apr 2023	
Machine Age	hrs	Client Info		5965	5697	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	A 36	4 29	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	3	<1	
Lead	ppm	ASTM D5185m	>10	10	9	
Copper	ppm	ASTM D5185m	>75	16	18	
Tin		ASTM D5185m	>10	0	<1	
	ppm	ASTM D5185m	>10	0		
Vanadium	ppm			-	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	2	0	
Barium	ppm	ASTM D5185m	5	2	0	
Molybdenum	ppm	ASTM D5185m	5	0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	25	8	12	
Calcium	ppm	ASTM D5185m	200	374	382	
Phosphorus	ppm	ASTM D5185m	300	352	321	
Zinc	ppm	ASTM D5185m	370	369	374	
Sulfur	ppm	ASTM D5185m	2500	1974	1313	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	8	
Sodium	ppm	ASTM D5185m		5	4	
Potassium	ppm	ASTM D5185m	>20	2	2	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 79521	▲ 76463	
Particles >6µm		ASTM D7647	>1300	<u> </u>	930	
Particles >14µm		ASTM D7647	>160	21	60	
Particles >21µm		ASTM D7647	>40	8	11	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 3/19/12	▲ 23/18/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.56	0.43	
	ing itoring	, 10 HM 20040	5.07			FIL - MANTIN
15:14:14) Rev: 1 Contact/Location: BEN CALDWELL - MA						

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