

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **CR3314** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

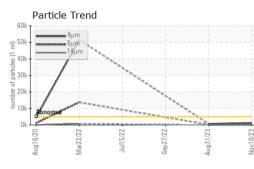
		Aug2020	Mar2022 Jul2022	2 Sep2022 Aug2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0867419	WC0833326	WC0555932	
Sample Date		Client Info		10 Nov 2023	31 Aug 2023	27 Sep 2022	
Machine Age	hrs	Client Info		8421	8290	7219	
Oil Age	hrs	Client Info		0	0	442	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	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	0	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	1	
Aluminum	ppm	ASTM D5185m	>10	0	0	<1	
Lead	ppm	ASTM D5185m	>10	0	<1	<1	
Copper	ppm	ASTM D5185m	>75	3	2	2	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	5	0	0	<1	
Barium	ppm	ASTM D5185m	5	0	2	0	
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	25	0	3	3	
Calcium	ppm	ASTM D5185m	200	20	28	30	
Phosphorus	ppm	ASTM D5185m	300	221	226	227	
Zinc	ppm	ASTM D5185m		273	276	282	
Sulfur	ppm	ASTM D5185m	2500	1500	1640	1801	
CONTAMINANTS	6	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	<1	1	1	
Sodium	ppm	ASTM D5185m		<1	0	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	<1	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	1255	691		
Particles >6µm		ASTM D7647	>1300	168	172		
Particles >14µm		ASTM D7647	>160	15	17		
Particles >21µm		ASTM D7647	>40	4	6		
Particles >38µm		ASTM D7647	>10	0	0		
Particles >71µm		ASTM D7647	>3	0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	17/15/11		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.17	0.29	0.25	
:37:38) Rev: 1	- 0		С	ontact/Location	: JOHN HAWKIN	NS - BUCWILTX	
/	Contact/Location: JOHN HAWKINS - BUCWILTX						

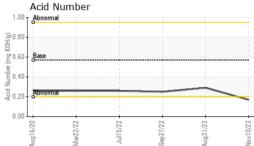
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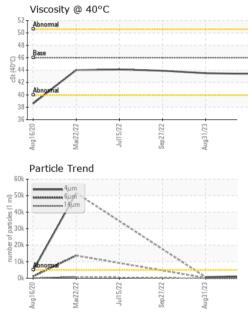
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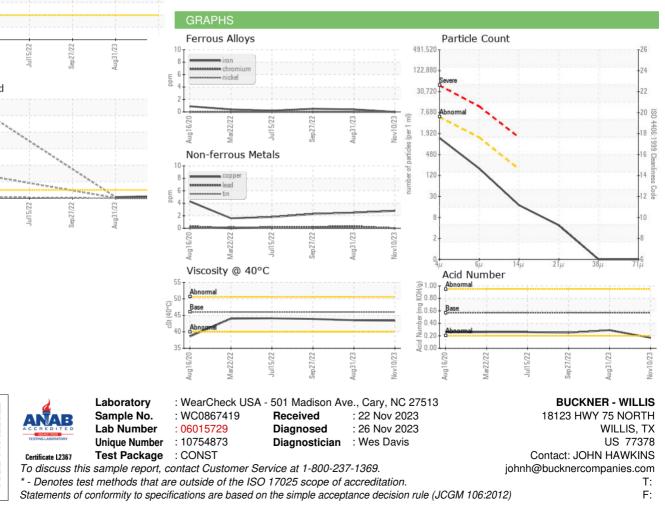






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	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	43.4	43.5	43.9
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					•	

Bottom



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