

OIL ANALYSIS REPORT

Sample Rating Trend



ARBURG E-04 (S/N 263558)

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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.

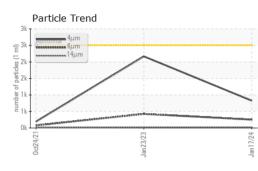
Fluid Condition

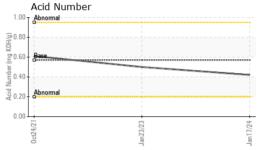
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

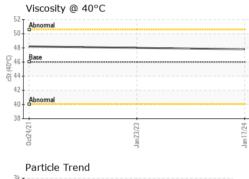
0-c2/021 Jan2/023 Jan2/024							
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0883599	WC0768420	WC0631249	
Sample Date		Client Info		17 Jan 2024	23 Jan 2023	24 Oct 2021	
Machine Age	yrs	Client Info		0	0	0	
Oil Age	yrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	SEVERE	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Water		WC Method	>0.05	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	0	<1	2	
Chromium	ppm	ASTM D5185m	>20	0	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m		0	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	1	
Copper	ppm	ASTM D5185m	>20	1	1	134	
Tin	ppm	ASTM D5185m	>20	<1	0	0	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 5	current 0	history1 0	history2 0	
	ppm ppm						
Boron		ASTM D5185m	5	0	0	0	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	5 5	0 0	0	0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25	0 0 <1 3	0 1 <1	0 0 <1 <1 <1 <1	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25 200	0 0 <1 3 26	0 1 <1 0 <1 26	0 0 <1 <1 <1 <1 42	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25 200 300	0 0 <1 3 26 442	0 1 <1 0 <1 26 436	0 0 <1 <1 <1 <1 42 530	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25 200 300 370	0 0 <1 3 26 442 574	0 1 <1 0 <1 26 436 595	0 0 <1 <1 <1 42 530 662	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500	0 0 <1 3 26 442 574 1973	0 1 <1 0 <1 26 436	0 0 <1 <1 <1 <1 42 530	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25 200 300 370	0 0 <1 3 26 442 574 1973 current	0 1 <1 0 <1 26 436 595	0 0 <1 <1 <1 42 530 662 1273 history2	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	5 5 25 200 300 370 2500	0 0 2 3 26 442 574 1973 current <1	0 1 <1 0 <1 26 436 595 2083 history1 <1	0 0 <1 <1 <1 42 530 662 1273 history2 1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	5 5 5 25 200 300 370 2500 Limit/base >15	0 0 2 3 26 442 574 1973 current <1 1	0 1 <1 0 <1 26 436 595 2083 history1 <1 0	0 0 <1 <1 <1 42 530 662 1273 history2 1 4	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 5 200 300 370 2500 limit/base >15 >20	0 0 2 3 26 442 574 1973 current <1 1 0	0 1 <1 26 436 595 2083 history1 <1 0 <1	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base >250	0 0 2 3 26 442 574 1973 current 2 1 0 current	0 1 <1 26 436 595 2083 history1 <1 0 <1 history1	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2 history2	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 5 25 200 300 370 2500 2500 >15 >20 imit/base >20	0 0 0 <1 3 26 442 574 1973 <u>current</u> <1 1 0 <u>current</u> 828	0 1 <1 26 436 595 2083 history1 <1 0 <1 history1 2169	0 0 <1 <1 42 530 662 1273 history2 1 4 2 history2 195	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	5 5 5 200 300 370 2500 2500 2500 >15 >20 imit/base >2500 >320	0 0 0 <1 3 26 442 574 1973 current <1 1 0 current 828 253	0 1 <1 0 <1 26 436 595 2083 history1 <1 0 <1 history1 2169 426	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2 history2 195 78	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647	5 5 5 200 300 370 2500 2500 2500 >15 >20 <u>limit/base</u> >2500 >320 >320 >80	0 0 0 <1 3 26 442 574 1973 <i>current</i> <1 1 0 <i>current</i> 828 253 24	0 1 <1 0 <1 26 436 595 2083 history1 <1 0 <1 0 <1 history1 2169 426 22	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2 history2 195 78 13	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 2500 2500 2500 20 2500 22500 22500 2320 280 280 20	0 0 0 <1 3 26 442 574 1973 current <1 1 1 0 current 828 253 24 6	0 1 <1 0 <1 26 436 595 2083 history1 <1 0 <1 0 <1 history1 2169 426 22 10	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2 history2 195 78 13 1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 2500 2500 >15 20 220 2500 >220 >320 >80 20 20 20	0 0 0 <1 3 26 442 574 1973 current <1 1 0 current 828 253 24 6 0	0 1 <1 26 436 595 2083 history1 <1 0 <1 1 2169 426 22 10 4	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2 history2 1 1 4 2 history2 195 78 13 1 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 2500 2500 2500 20 2500 22500 22500 2320 280 280 20	0 0 0 <1 3 26 442 574 1973 current <1 1 1 0 current 828 253 24 6	0 1 <1 0 <1 26 436 595 2083 history1 <1 0 <1 0 <1 history1 2169 426 22 10	0 0 <1 <1 <1 42 530 662 1273 history2 1 4 2 history2 195 78 13 1	



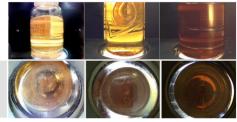
OIL ANALYSIS REPORT

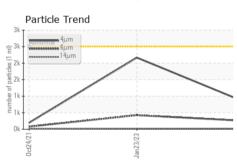






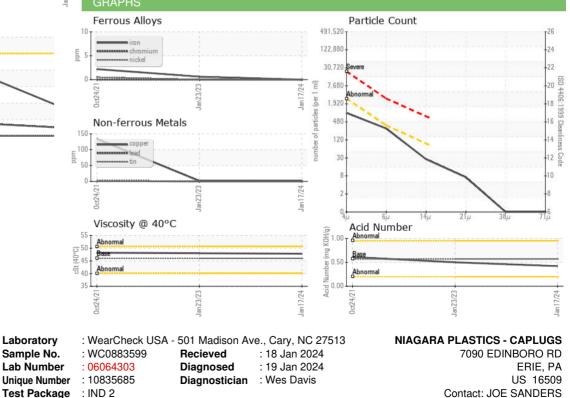
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.42	0.50	0.610
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.8	48.0	48.2
SAMPLE IMAGES		method	limit/base	current	history1	history2





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Test Package : IND 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Color

Bottom

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Laboratory

Sample No.