

### **OIL ANALYSIS REPORT**



Machine Id

# ARBURG 10 (S/N 188121)

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.

#### 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.

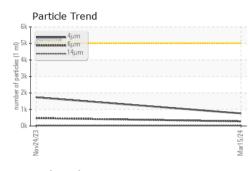
			1012023	marxir,		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0005478	PTK0005106	
Sample Date		Client Info		15 Mar 2024	24 Nov 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Dil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	2	0	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Fitanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	
ead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	4	7	
Fin	ppm	ASTM D5185m	>10	0	0	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	0	0	
Nolybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	25	6	0	
Calcium	ppm	ASTM D5185m	200	41	50	
Phosphorus	ppm	ASTM D5185m	300	309	335	
Zinc	ppm	ASTM D5185m	370	369	407	
Sulfur	ppm	ASTM D5185m	2500	2783	1174	
CONTAMINANTS	ppm					
Silicon			limit/base	current	history1	history2
	ppm	ASTM D5185m	>20		<1	
Sodium	ppm	ASTM D5185m	00	2	0	
Potassium	ppm	ASTM D5185m		<1	0	
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	762	1734	
Particles >6µm		ASTM D7647	>1300	280	478	
Particles >14µm		ASTM D7647	>160	26	31	
Particles >21µm		ASTM D7647	>40	5	8	
Particles >38µm		ASTM D7647	>10	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	18/16/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.49	0.26	
30:52) Rev: 1			Cont	act/Location: S	TUART SHEPHI	ERD - FEDMA

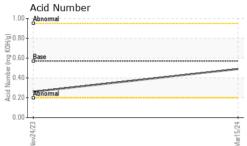
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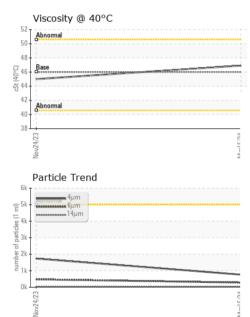
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## **OIL ANALYSIS REPORT**







		method				history
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D445	46	46.9	45.0	
SAMPLE IMAG	ES	method	limit/base	current	history1	history
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys					t	
ion			491,520	1		
chromium			122,880	-		
			20.720	Severe		
2			30,720	1		
0				Abnormal		-
			Mar15/24 6(per 1 ml	1 · · · · ·		
24/2			(pe			
Nov24/23			es es			
 Non-ferrous Me	tals		saportured 480			
Non-ferrous Me	tals		sappled bound			
Non-ferrous Me	tals		307 100 100 100 100 100 100 100 100			
Non-ferrous Me	tals		2 530 120 120 120 30			
Non-ferrous Me	tals					
Non-ferrous Me	tals		8			
Non-ferrous Me	tals		8			
Non-ferrous Me			30 47251 18		140 24.	
Non-ferrous Me			30 47251 18		14μ 21μ	
Non-ferrous Me			30 8 62/51 2 9 7/51 2 9 7/51 2 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 1	<sup>6μ</sup> Acid Number	14μ 21μ	
Non-ferrous Me			30 8 62/51 2 9 7/51 2 9 7/51 2 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 1	<sup>6μ</sup> Acid Number	14μ 21μ	
Non-ferrous Me			30 8 62/51 2 9 7/51 2 9 7/51 2 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 1	<sup>6μ</sup> Acid Number	14μ 21μ	
Non-ferrous Me			30 8 62/51 2 9 7/51 2 9 9 7/51 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	<sup>6μ</sup> Acid Number	14μ 21μ	38µ 71,
Non-ferrous Me			30 8 62/51 2 9 7/51 2 9 9 7/51 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	<sup>6μ</sup> Acid Number	14μ 21μ	
Non-ferrous Me			30 47251 18	<sup>6μ</sup> Acid Number	14μ 21μ	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAG Color Bottom GRAPHS Ferrous Alloys	Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar Free Water cst SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Odor scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys	Silt scalar *Visual NONE Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.1 Free Water scalar *Visual *Visual *0.1 Free Water scalar *0.1 Free Wa	Silt scalar *Visual NONE NONE   Debris scalar *Visual NONE NONE   Sand/Dirt scalar *Visual NONE NONE   Appearance scalar *Visual NORML NORML   Odor scalar *Visual NORML NORML   Odor scalar *Visual NORML NORML   Emulsified Water scalar *Visual >0.1 NEG   Free Water scalar *Visual >0.1 NEG   Free Water scalar *Visual >0.1 NEG   FLUID PROPERTIES method limit/base current   Visc @ 40°C cSt ASTM D445 46 46.9   SAMPLE IMAGES method imit/base current   Color Imit base current Imit base current   Bottom Imit base current Imit base Imit base Imit base   Imit base Imit base Imit base Imit base Imit base Imit base Imit base   <	Silt scalar 'Visual NONE NONE NONE NONE Debris scalar 'Visual NONE NONE NONE Sand/Dirt scalar 'Visual NONE NONE NONE Appearance scalar 'Visual NORML NORML NORML Odor scalar 'Visual NORML NORML NORML NORML Emulsified Water scalar 'Visual >0.1 NEG NEG Free Water scalar 'Visual >0.1 NEG NEG Free Water scalar 'Visual >0.1 NEG NEG Free Water scalar 'Visual >0.1 NEG NEG FulliD PROPERTIES method limit/base current history1 Visc @ 40°C cSt ASTM D445 46 46.9 45.0 SAMPLE IMAGES method limit/base current history1 Color Bottom GRAPHS Ferrous Alloys Particle Count 491.520 0.720

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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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Contact/Location: STUART SHEPHERD - FEDMAH

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