

OIL ANALYSIS REPORT

Sample Rating Trend



ARBURG D-11 - 251451

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.

				lan2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0883614		
Sample Date		Client Info		17 Jan 2024		
Machine Age	yrs	Client Info		0		
Dil Age	yrs	Client Info		0		
Dil Changed	,	Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Nater		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	5		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Numinum	ppm	ASTM D5185m	>20	0		
.ead	ppm	ASTM D5185m	>20	۰ <1		
Copper	ppm	ASTM D5185m	>20	9		
in		ASTM D5185m	>20	ء <1		
/anadium	ppm	ASTM D5185m	>20	0		
Cadmium	ppm	ASTM D5185m		-		
	ppm			0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Nolybdenum	ppm	ASTM D5185m	5	0		
<i>M</i> anganese	ppm	ASTM D5185m		<1		
<i>I</i> agnesium	ppm	ASTM D5185m	25	2		
Calcium	ppm	ASTM D5185m	200	67		
Phosphorus	ppm	ASTM D5185m	300	434		
Zinc	ppm	ASTM D5185m	370	555		
Sulfur	ppm	ASTM D5185m	2500	2562		
CONTAMINANTS	i de la companya de l	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
	ppm ppm	ASTM D5185m ASTM D5185m	>15	<1		
Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20			
Sodium	ppm ppm	ASTM D5185m		<1 3		
Sodium Potassium FLUID CLEANLIN	ppm ppm	ASTM D5185m ASTM D5185m	>20	<1 3 <1		
Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	<1 3 <1 current	 history1	 history2
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D7647	>20 limit/base >2500	<1 3 <1 current 1201	 history1 	 history2
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >2500 >320	<1 3 <1 current 1201 263	 history1 	 history2
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm	ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >2500 >320 >80 >20	<1 3 <1 current 1201 263 13	 history1 	 history2
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm	ppm ppm	ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >2500 >320 >80 >20 >4	<1 3 <1 <u>current</u> 1201 263 13 4 1	 history1 	 history2
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm	ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >2500 >320 >80 >20 >4 >3	<1 3 <1 current 1201 263 13 4 1 0	 history1 	 history2
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm Dil Cleanliness	ppm ppm ESS	ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>20 limit/base >2500 >320 >80 >20 >4 >3 >18/15/13	<1 3 <1 <u>current</u> 1201 263 13 4 1 0 17/15/11	 history1 	 history2
Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm	ppm ppm ESS	ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 limit/base >2500 >320 >80 >20 >4 >3	<1 3 <1 current 1201 263 13 4 1 0	 history1 	 history2

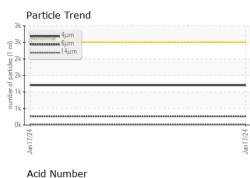
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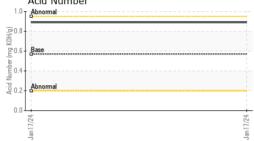
Contact/Location: JOE SANDERS - NIAERI

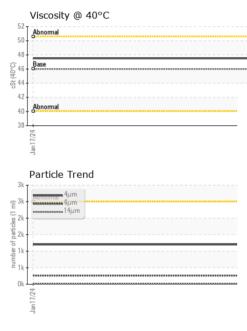


OIL ANALYSIS REPORT

VISUAL







White N		scalar	*Visual	NONE	NONE		
Yellow			*Visual	NONE	NONE		
Precipit	ate	scalar	*Visual	NONE	NONE		
Silt			*Visual	NONE	NONE		
Debris			*Visual	NONE	NONE		
Sand/Di			*Visual	NONE	NONE		
Appeara	ance	scalar	*Visual	NORML	NORML		
Cuor		scalar	*Visual	NORML	NORML		
Emulsifi	ied Water	scalar	*Visual	>0.05	NEG		
Free Wa	ater	scalar	*Visual		NEG		
FLUID	D PROPER1	TIES	method	limit/base	current	history1	history2
Visc @	40°C	cSt	ASTM D445	46	47.5		
SAMF	PLE IMAGE	S	method	limit/base	current	history1	history2
tolor						no image	no image
Bottom						no image	no image
GRAF							
Ferrou	us Alloys			491,52	Particle Count		т26
	iron			431,32			1 ²⁰
	nickel			122,88	0-		-24
				20.72	9 Severe		-22
2				30,72	pevere		122
0	*******			7,68	0-		-20
lan 17/24				Jan 17/24 particles (per 1 ml) 88	Abnormal		+20 +18 +16 +14
Jan 1				S (per			10
Non-fe	errous Metal	ls		Potue 48			-16
10 T	conner			ar of p	1.		
8-	ne lead			12 numper		* 4	14
	•••• tin			3			-12
4					8-		-10
2							T'
0					2-		-8
Jan 17/24				Jan 17/24			
Viscos	sity @ 40°C					14µ 21µ	38µ 71µ
55 T				_1.	Acid Number		
50 Abnorma	al			HO O	8		
(0,00) 45 - Base 35 - Abnormal				Ē.	Base		
to the second se	J			- a 0.	4		
40 -				N p	2 - Abnormal		
35							
11/2				2/11/2	2/11		
	248	501 Madis Recieved Diagnose Diagnosti	:18. d:19.			7090	CS - CAPLUG EDINBORO R ERIE, P US 1650 JOE SANDER
aboratory : WearCl ample No. : WC088 ab Number : 060642	heck USA - 5 33614 248	Recieved Diagnose	:18. d:19.	Jan 2024 Jan 2024	Jan 17/24		EDINBOF ER

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

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