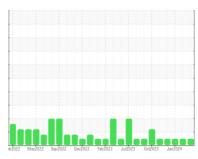


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **BOLLENGRAF**Component

Hydraulic System

GULF AW 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.

		ib 2022 May20	022 Sep2022 Dec2022	Feb 2023 Jul 2023 Oct 2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0860336	WC0860342	WC0788734
Sample Date		Client Info		29 Mar 2024	29 Feb 2024	31 Jan 2024
Machine Age	hrs	Client Info		22059	21897	21753
Oil Age	hrs	Client Info		21154	21136	21136
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	2	1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		8	0	1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		1	3	2
Calcium	ppm	ASTM D5185m		67	84	103
Phosphorus	ppm	ASTM D5185m		311	311	330
Zinc	ppm	ASTM D5185m		412	439	453
Sulfur	ppm	ASTM D5185m		1608	1442	1624
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	2	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4266	2648	
Particles >6µm		ASTM D7647	>1300	528	549	
Particles >14μm		ASTM D7647	>160	25	33	
Particles >21µm		ASTM D7647	>40	7	11	
Particles >38μm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	19/16/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A adal Nicosala au (ANI)	I/OLI/-	ACTM DODAE		0.07	0.05	

Acid Number (AN)

mg KOH/g ASTM D8045

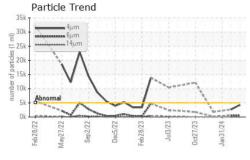
0.27

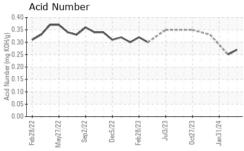
0.25

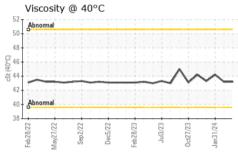
Submitted By: JOHN HARDY

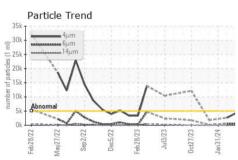


OIL ANALYSIS REPORT









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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPE	RIIES	method	ilmit/base		nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445		43.2	43.2	44.2

SAIVIFLE IIVIAGES	method	IIIIII/Dase	Current	HISTOLAL	HISTOLYZ
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS Ferrous Alloys Particle Count 491,520 122,88 30.72 7.68 1,920 Non-ferrous Metals 480 120 Viscosity @ 40°C Acid Number (mg KOH/g) (40°C)





Laboratory Sample No.

Lab Number : 06138708

: WC0860336 Unique Number : 10963516

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 04 Apr 2024 **Tested** : 10 Apr 2024 Diagnosed : 10 Apr 2024 - Wes Davis

ONEIDA HERKIMER SOLID WASTE 80 LELAND AVENUE

UTICA, NY US 13502

Contact: Service Manager

Test Package : MOB 2 Certificate 12367 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)

Submitted By: JOHN HARDY

T:

F: