

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **3771426** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 32 (--- 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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0911859	WC0814088	WC0695443
Sample Date		Client Info		18 Apr 2024	03 May 2023	16 May 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
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	5	5	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	2	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	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	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	25	<1	<1	<1
Calcium	ppm	ASTM D5185m	200	42	49	50
Phosphorus	ppm	ASTM D5185m	300	349	375	379
Zinc	ppm	ASTM D5185m	370	409	454	462
Sulfur	ppm	ASTM D5185m	2500	3817	4342	3848
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4126	1165	7177
Particles >6µm		ASTM D7647	>1300	905	88	789
Particles >14µm		ASTM D7647	>160	41	9	46
Particles >21µm		ASTM D7647	>40	6	2	14
Particles >38µm		ASTM D7647	>10	1	0	0
			0			
Particles >71µm		ASTM D7647	>3	0	0	0

ISO 4406 (c) >19/17/14

19/17/13

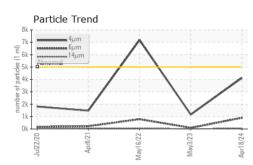
Oil Cleanliness

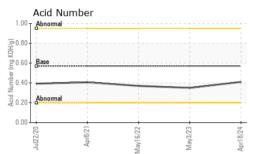
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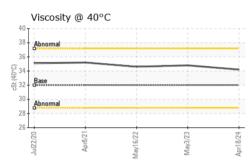
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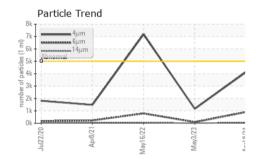


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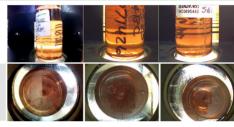


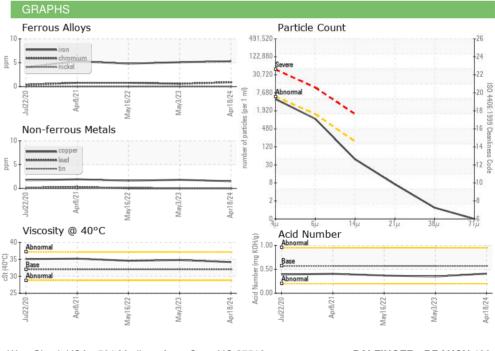


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.41	0.35	0.37
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	34.2	34.8	34.6
SAMPLE IMAGES		method	limit/base	current	history1	history2
						BRANT ACT

Color

Bottom





PALFINGER - BRANCH 400 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0911859 Received : 20 May 2024 4151 W ST RT 18 Lab Number : 06184239 Tested : 21 May 2024 TIFFIN, OH US 44883 Unique Number : 11035565 Diagnosed : 21 May 2024 - Wes Davis Test Package : CONST Contact: ERIC HILL Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. e.hill@palfinger.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (419)448-8156 F:

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

Report Id: PALTIF [WUSCAR] 06184239 (Generated: 05/21/2024 13:49:45) Rev: 1

Contact/Location: ERIC HILL - PALTIF