Sample Rating Trend



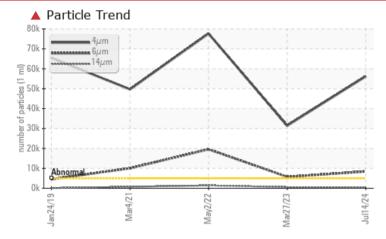
PROBLEM SUMMARY

Machine Id

SUNRISE 1301

Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. 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.

PROBLEMATIC TEST RESULTS

THOBELM/THO TE					
Sample Status			SEVERE	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	4 56164	A 31425	▲ 77652
Particles >6µm	ASTM D7647	>1300	<u> </u>	<u> </u>	19565
Particles >14µm	ASTM D7647	>160	<u> </u>	<u> </u>	1 417
Particles >21µm	ASTM D7647	>40	🔺 116	1 47	4 394
Oil Cleanliness	ISO 4406 (c)	>19/17/14	4 23/20/16	<u> </u>	A 23/21/18

Customer Id: PALTIF Sample No.: WC0911769 Lab Number: 06235871 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

27 Mar 2023 Diag: Doug Bogart



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



02 May 2022 Diag: Jonathan Hester

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



04 Mar 2021 Diag: Don Baldridge

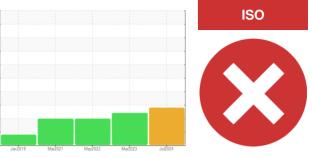
We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SUNRISE 1301

Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. 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

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0911769	WC0780173	WC0516875
Sample Date		Client Info		14 Jul 2024	27 Mar 2023	02 May 2022
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATION	١	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	1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	4	2
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	3	2	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	25	4	<1	0
Calcium	ppm	ASTM D5185m	200	56	66	66
Phosphorus	ppm	ASTM D5185m	300	314	335	353
Zinc	ppm	ASTM D5185m	370	408	385	394
Sulfur	ppm	ASTM D5185m	2500	1082	1015	1123
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	3	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	56164	A 31425	▲ 77652
Particles >6µm		ASTM D7647	>1300	<u> </u>	5 749	1 9565
Particles >14µm		ASTM D7647	>160	445	▲ 563	1 417
Particles >21µm		ASTM D7647	>40	<u> </u>	1 47	A 394
Particles >38µm		ASTM D7647	>10	6	1 4	1 3

ASTM D7647 >3

Particles >71µm

Oil Cleanliness

0

ISO 4406 (c) >19/17/14 **4 23/20/16**

0

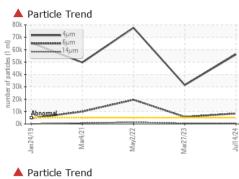
▲ 23/21/18

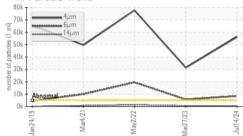
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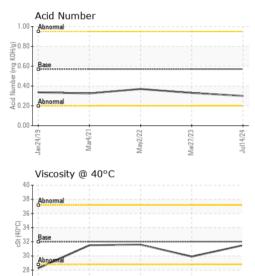
▲ 22/20/16



OIL ANALYSIS REPORT







Mav2/22

Mar27/23

26

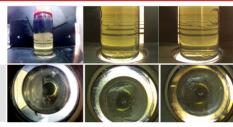
Jan24/19

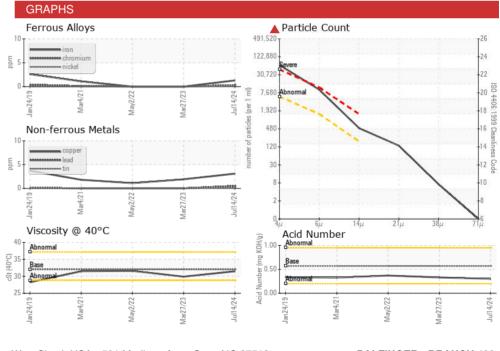
Mar4/21

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.30	0.33	0.37
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	LIGHT	LIGHT	VLITE
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	31.5	29.9	31.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color

Bottom





PALFINGER - BRANCH 400 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0911769 Received : 15 Jul 2024 4151 W ST RT 18 Lab Number : 06235871 Tested : 16 Jul 2024 TIFFIN, OH US 44883 Unique Number : 11124705 Diagnosed : 16 Jul 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

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

Report Id: PALTIF [WUSCAR] 06235871 (Generated: 07/16/2024 09:37:26) Rev: 1

Contact/Location: ERIC HILL - PALTIF

F: