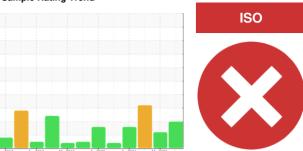


PROBLEM SUMMARY

Sample Rating Trend



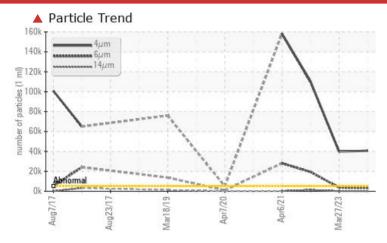
Machine Id

MACHINE 7 (S/N 3926)

Hydraulic System

SAFETY-KLEEN PERFORMANCE PLUS HYDRAULIC AW 46 (55 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS								
Sample Status			SEVERE	ABNORMAL	ABNORMAL			
Particles >4µm	ASTM D7647	>5000	40716	<u>△</u> 39751	<u></u> 110100			
Particles >6µm	ASTM D7647	>1300	3305	△ 3719	<u> </u>			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/19/14	<u>^</u> 22/19/14	<u>4</u> 24/21/18			

Customer Id: CONSAM Sample No.: WC0910100 Lab Number: 06147294 Test Package: IND 2



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		
Resample			?	Resample in 30-45 days to monitor this situation.		
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 Seals			?	Check seals and/or filters for points of contaminant entry.		

HISTORICAL DIAGNOSIS

27 Mar 2023 Diag: Don Baldridge

ISO

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



VISUAL METAL

07 Apr 2022 Diag: Angela Borella

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Light concentration of visible metal present. 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.





06 Apr 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

MACHINE 7 (S/N 3926)

Hydraulic System

SAFETY-KLEEN PERFORMANCE PLUS HYDF

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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.

AULIC AW 46 (55 GAL)	Aug2017	Aug2017 Mar2019	Aprž020 Aprž021	Mar 2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0910100	WC0800139	WC0668619
Sample Date		Client Info		01 Apr 2024	27 Mar 2023	07 Apr 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Filtered
Sample Status				SEVERE	ABNORMAL	ABNORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	5	4	4
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Γitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	0	<1
_ead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>20	5	4	2
Γin	ppm	ASTM D5185m	>20	1	0	0
Antimony	ppm	ASTM D5185m				
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
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		2	1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		8	17	8
Calcium	ppm	ASTM D5185m	48	63	63	59
Phosphorus	ppm	ASTM D5185m	340	348	336	298
Zinc	ppm	ASTM D5185m	430	397	428	419
Sulfur	ppm	ASTM D5185m		900	1037	692
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	0	<1
FLUID CLEANLI	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	40716	△ 39751	<u> </u>
Particles >6µm		ASTM D7647	>1300	4 3305	△ 3719	△ 19408
Particles >14µm		ASTM D7647	>160	90	136	△ 1389
Particles >21µm		ASTM D7647	>40	22	43	△ 346
Particles >38µm		ASTM D7647	>10	2	3	△ 34
Particles >71µm		ASTM D7647	>3	0	0	2
Oil Claanlinees		100 4400 (a)	10/17/14	A 00/40/44	A 00/10/14	A 04/01/10

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

Oil Cleanliness

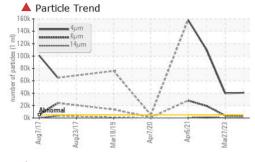
<u>4</u> 24/21/18

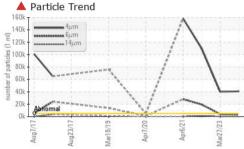
22/19/14

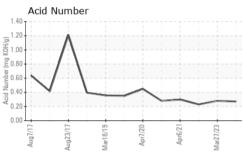
Contact/Location: ERIC LOYA - CONSAM

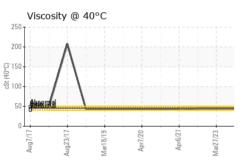


OIL ANALYSIS REPORT

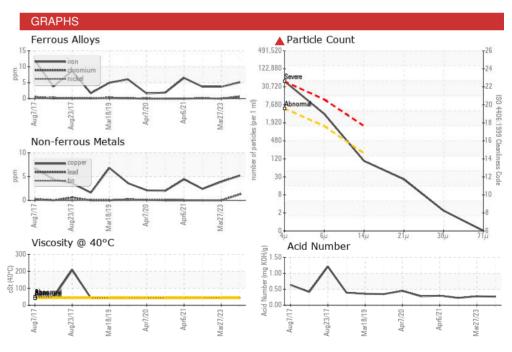








FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.28	0.23
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.0	44.2	44.4	44.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						







Laboratory Sample No. Lab Number : 06147294

: WC0910100

Bottom

Unique Number : 10977372

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 **Tested** : 15 Apr 2024

Diagnosed

: 15 Apr 2024 - Wes Davis

Altium Packaging - SAMUELSON - Plant 1302A

1070 SAMUELSON ST CITY OF INDUSTRY, CA US 91748-1219

Contact: ERIC LOYA Eric.Loya@altiumpkg.com

T:

Test Package : IND 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)

F: