

PROBLEM SUMMARY

Sample Rating Trend

WEAR

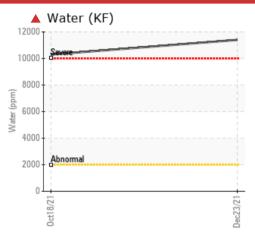
OSV HERCULES 2PH

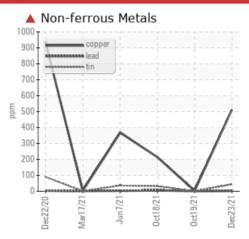
Component

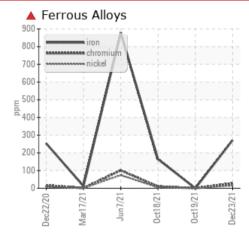
Starboard Wheel Hub

SHELL OMALA S2 GX 100 (25 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	SEVERE			
Chromium	ppm	ASTM D5185m	>8	27	0	10			
Nickel	ppm	ASTM D5185m	>5	1 5	<1	5			
Copper	ppm	ASTM D5185m	>50	▲ 512	3	1 214			
Tin	ppm	ASTM D5185m		44	<1	△ 32			
Water	%	ASTM D6304	>0.2	1.14		1.03			
ppm Water	ppm	ASTM D6304	>2000	11400		1 0300			
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	▲ 0.2%			

Customer Id: ALADUT Sample No.: WC0631047 Lab Number: 05432055 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Inspect Wear Source	MISSED	Mar 20 2023	?	We advise that you inspect for the source(s) of wear.				
Change Fluid	MISSED	Mar 20 2023	?	We recommend that you drain the oil from the component if this has not already been done.				
Resample	MISSED	Mar 20 2023	?	We recommend an early resample to monitor this condition.				
Check Water Access	MISSED	Mar 20 2023	?	We advise that you check for the source of water entry.				

HISTORICAL DIAGNOSIS

19 Oct 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. (end of flushing). All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



18 Oct 2021 Diag: Don Baldridge

WEAR



We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (start of flushing). Bearing and/or bushing wear is indicated. Appearance is milky. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

07 Jun 2021 Diag: Don Baldridge

WEAR

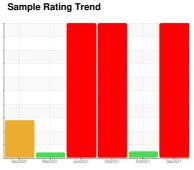


We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Gear wear is indicated. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT





Machine Id

OSV HERCULES 2PH

Component

Starboard Wheel Hub

SHELL OMALA S2 GX 100 (25 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Bearing and/or bushing wear is indicated. Gear wear is indicated.

Contamination

There is a high concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants and wear.

		Dec2020	Mar2021 Jun202	11 Oct2021 Oct2021	Dec2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0631047	WC0579473	WC0579474
Sample Date		Client Info		23 Dec 2021	19 Oct 2021	18 Oct 2021
Machine Age	hrs	Client Info		20560	20055	20055
Oil Age	hrs	Client Info		574	8000	8000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	271	0	164
Chromium	ppm	ASTM D5185m	>8	27	0	10
Nickel	ppm	ASTM D5185m	>5	1 5	<1	5
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>5	2	0	2
Lead	ppm	ASTM D5185m	>5	2	0	6
Copper	ppm	ASTM D5185m	>50	▲ 512	3	1 214
Tin	ppm	ASTM D5185m		44	<1	△ 32
Antimony	ppm	ASTM D5185m		0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	0	2
Barium	ppm	ASTM D5185m		0	1	4
Molybdenum	ppm	ASTM D5185m		1	0	<1
Manganese	ppm	ASTM D5185m		4	0	2
Magnesium	ppm	ASTM D5185m		8	0	7
Calcium	ppm	ASTM D5185m		10	0	4
Phosphorus	ppm	ASTM D5185m		318	271	195
Zinc	ppm	ASTM D5185m		0	0	5
Sulfur	ppm	ASTM D5185m		6922	5995	5811
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	<1	2
Sodium	ppm	ASTM D5185m		55	3	41
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Water	%	ASTM D6304	>0.2	1.14		1.03
ppm Water	ppm	ASTM D6304	>2000	11400		▲ 10300
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.072	0.250	0.175



OIL ANALYSIS REPORT

