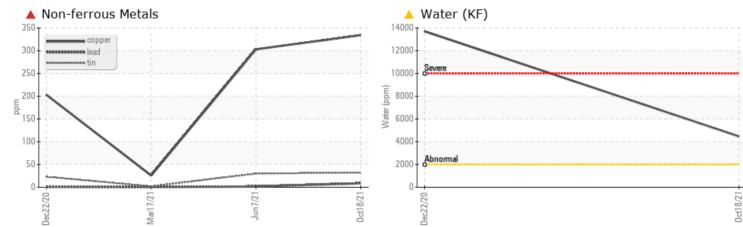


OSV HERCULES 1PH Component

Port Wheel Hub Fluid SHELL OMALA S2 GX 100 (25 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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 oil flush).

PROBLEMATIC TEST RESULTS

THOBELIN, THO TEOTHEODETO								
Sample Status				SEVERE	SEVERE	MARGINAL		
Copper	ppm	ASTM D5185m	>50	a 334	a 303	26		
Tin	ppm	ASTM D5185m		<mark>/</mark> 32	A 30	2		
Water	%	ASTM D6304	>0.2	6.447				
ppm Water	ppm	ASTM D6304	>2000	4470				
Emulsified Water	scalar	*Visual	>0.2	6.2%	NEG	NEG		

Sample Rating Trend

Customer Id: ALADUT Sample No.: WC0579467 Lab Number: 05388955 Test Package: MAR 2



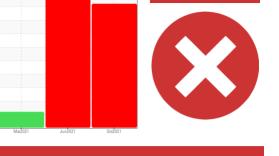
To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



WEAR



RECOMMENDED A	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Inspect Wear Source	MISSED	Nov 03 2021	?	We advise that you inspect for the source(s) of wear.			
Resample	MISSED	Nov 03 2021	?	We recommend an early resample to monitor this condition.			
Check Water Access	MISSED	Nov 03 2021	?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS



07 Jun 2021 Diag: Don Baldridge

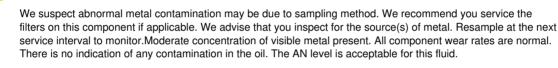
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. High concentration of visible metal present. Bearing and/or bushing wear is indicated. Gear wear is 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.



view report

17 Mar 2021 Diag: Doug Bogart

VISUAL METAL



22 Dec 2020 Diag: Jonathan Hester



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 recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Bearing and/or bushing wear is indicated. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

X

Machine Id OSV HERCULES 1PH

Port Wheel Hub Fluid SHELL OMALA S2 GX 100 (25 GAL)

DIAGNOSIS

Recommendation

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 oil flush).

A Wear

Bearing and/or bushing wear is indicated.

Contamination

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

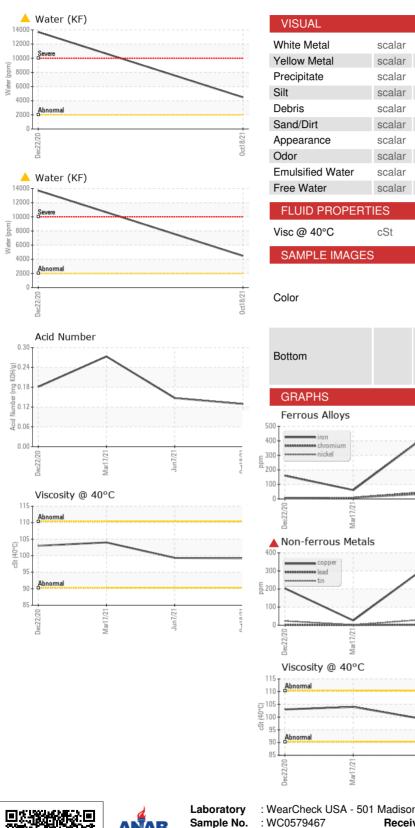
Fluid Condition

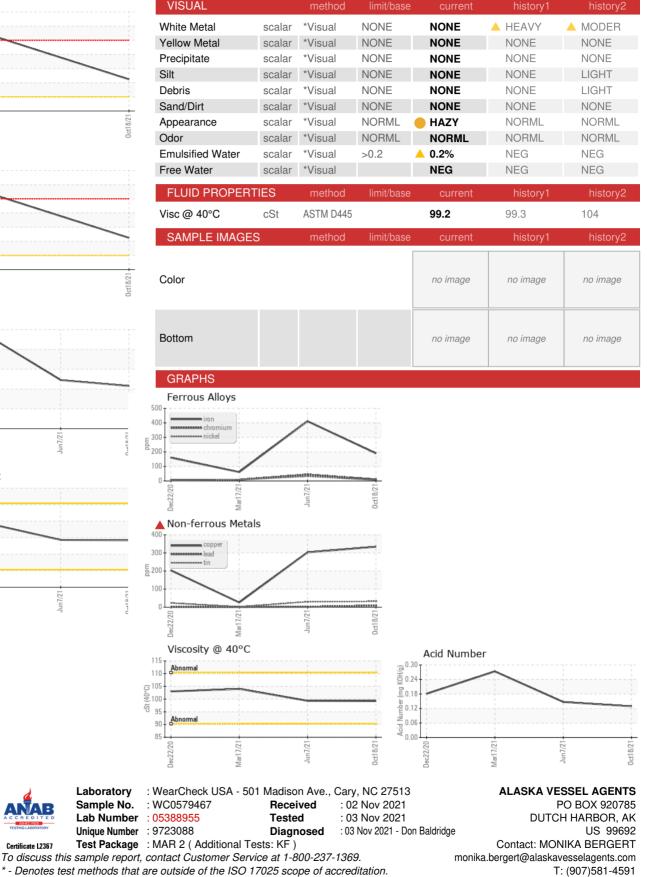
The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0579467	WC0541062	WC0541049
Sample Date		Client Info		18 Oct 2021	07 Jun 2021	17 Mar 2021
Machine Age	hrs	Client Info		20021	18579	18041
Oil Age	hrs	Client Info		8000	0	187
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				SEVERE	SEVERE	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	190	411	61
Chromium	ppm	ASTM D5185m	>8	10	4 4	8
Nickel	ppm	ASTM D5185m	>5	6	4 32	8
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	4	4	4
Lead	ppm	ASTM D5185m	>5	9	2	<1
Copper	ppm	ASTM D5185m	>50	A 334	a 303	26
Tin	ppm	ASTM D5185m		<mark>/</mark> 32	A 30	2
Antimony	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	5	2
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	3	<1
Manganese	ppm	ASTM D5185m		2	11	2
Magnesium	ppm	ASTM D5185m		6	11	4
Calcium	ppm	ASTM D5185m		4	13	23
Phosphorus	ppm	ASTM D5185m		238	257	204
Zinc	ppm	ASTM D5185m		5	2	0
Sulfur	ppm	ASTM D5185m		6514	7208	5254
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	14	3
Sodium	ppm	ASTM D5185m		18	15	3
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>0.2	<u> </u>		
ppm Water	ppm	ASTM D6304	>2000	4470		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.129	0.147	0.273



OIL ANALYSIS REPORT





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

Certificate L2367

Lab Number

F: