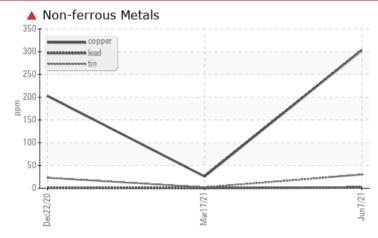
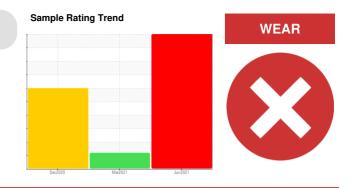


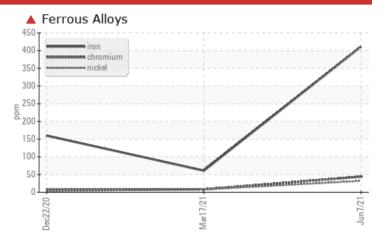
Machine Id OSV HERCULES 1PH

Port Wheel Hub Fluid OMALA S2 G 100 (25 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

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

THOBELMAND TEST HEODETS								
Sample Status				SEVERE	MARGINAL	SEVERE		
Chromium	ppm	ASTM D5185m	>8	4 4	8	7		
Nickel	ppm	ASTM D5185m	>5	A 32	8	3		
Copper	ppm	ASTM D5185m	>50	A 303	26	<u> </u>		
Tin	ppm	ASTM D5185m		<u> </u>	2	2 3		
White Metal	scalar	*Visual	NONE	🔺 HEAVY	A MODER	NONE		

Customer Id: ALADUT Sample No.: WC0541062 Lab Number: 05281607 Test Package: MAR 2



To manage this report scan the QR code

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

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	Nov 03 2021	?	We advise that you inspect for the source(s) of wear.		
Change Fluid	MISSED	Nov 03 2021	?	We recommend that you drain the oil from the component if this has not already been done.		
Resample	MISSED	Nov 03 2021	?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



17 Mar 2021 Diag: Doug Bogart

We suspect abnormal metal contamination may be due to sampling method. We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor.Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.



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

Machine Id OSV HERCULES 1PH

Port Wheel Hub Fluid OMALA S2 G 100 (25 GAL)

DIAGNOSIS

Recommendation

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

High concentration of visible metal present. Bearing and/or bushing wear is indicated. Gear wear is indicated.

Contamination

No other contaminants were detected in the oil.

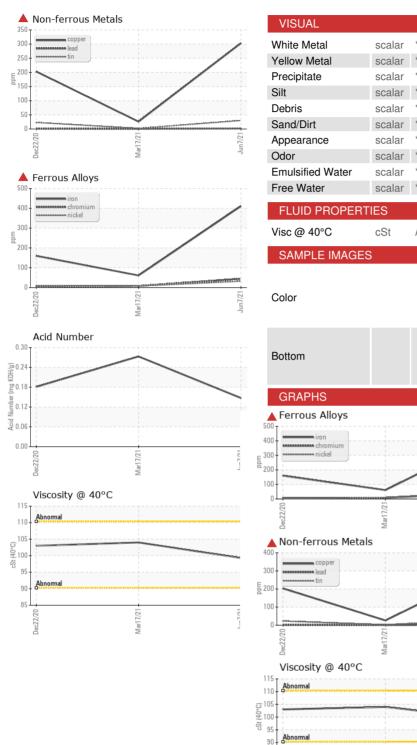
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

		De	2020	Mar2021 Jun2	021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0541062	WC0541049	WC0423676
Sample Date		Client Info		07 Jun 2021	17 Mar 2021	22 Dec 2020
Machine Age	hrs	Client Info		18579	18041	17476
Oil Age	hrs	Client Info		0	187	4977
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				SEVERE	MARGINAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	411	61	160
Chromium	ppm	ASTM D5185m	>8	4 4	8	7
Nickel	ppm	ASTM D5185m	>5	4 32	8	3
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	4	4	4
Lead	ppm	ASTM D5185m	>5	2	<1	1
Copper	ppm	ASTM D5185m	>50	3 03	26	2 03
Tin	ppm	ASTM D5185m		3 0	2	▲ 23
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	2	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	<1
Manganese	ppm	ASTM D5185m		11	2	3
Magnesium	ppm	ASTM D5185m		11	4	3
Calcium	ppm	ASTM D5185m		13	23	0
Phosphorus	ppm	ASTM D5185m		257	204	242
Zinc	ppm	ASTM D5185m		2	0	0
Sulfur	ppm	ASTM D5185m		7208	5254	7242
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	3	4
Sodium	ppm	ASTM D5185m		15	3	6
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.147	0.273	0.181



OIL ANALYSIS REPORT



HEAVY *Visual NONE MODER NONE NONE NONE NONE MODER *Visual *Visua NONE NONE NONE NONE scalar *Visual NONE NONE LIGHT NONE *Visual NONE NONE LIGHT NONE NONE *Visual NONE NONE NONE NORML NORML NORML NORML *Visua NORML *Visual NORML NORML NORML *Visual >0.2 NEG NEG ▲ 0.2% scalar *Visual NEG NEG NEG limit/base ASTM D445 99.3 104 103 no image no image no image no image no image no image Acid Number €^{0.30} 동 0.24 Ē 0.18 · 문 0.12 A μ. Ροθ 0.00 0.06 85 Dec22/20 Mar17/21 Jun7/21 Mar17/21 ALASKA VESSEL AGENTS : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PO BOX 920785 : WC0541062 Received : 17 Jun 2021 : 05281607 DUTCH HARBOR, AK Tested : 18 Jun 2021 US 99692 Unique Number : 9545540 Diagnosed : 18 Jun 2021 - Don Baldridge Test Package : MAR 2 Contact: MONIKA BERGERT To discuss this sample report, contact Customer Service at 1-800-237-1369. monika.bergert@alaskavesselagents.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (907)581-4591 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Certificate L2367

Laboratory

Sample No.

Lab Number

Contact/Location: MONIKA BERGERT - ALADUT