

PROBLEM SUMMARY

Sample Rating Trend

VISUAL METAL

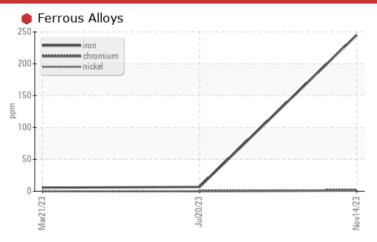


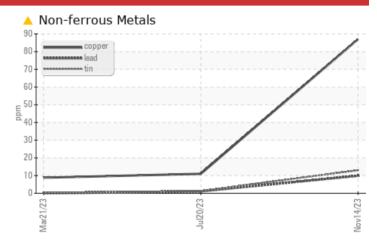
LIM_MLU4 LIM_MLU4

Component **Inboard Pump**

NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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	ABNORMAL				
Iron	ppm	ASTM D5185m	>90	245	7	6				
Lead	ppm	ASTM D5185m	>12	<u> </u>	1	0				
Copper	ppm	ASTM D5185m	>30	<u> </u>	11	9				
Tin	ppm	ASTM D5185m	>9	1 3	1	<1				
White Metal	scalar	*Visual	NONE	HEAVY	NONE	NONE				

Customer Id: ENELIM Sample No.: RP0032525 Lab Number: 06026551 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

Action Status Date Done By Description Inspect Wear Source --- ? We advise that you inspect for the source(s) of wear. Resample --- ? We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

20 Jul 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. 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.



21 Mar 2023 Diag: Angela Borella

WATER



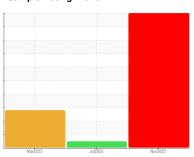
We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend







LIM_MLU4 LIM_MLU4 Component

Inboard Pump

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe. High concentration of visible metal present. Bearing and/or bushing wear is indicated.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

	Mar/2023 Jul/2023 Nov ² 2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		RP0032525	RP0033078	RP0032838		
Sample Date		Client Info		14 Nov 2023	20 Jul 2023	21 Mar 2023		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				SEVERE	NORMAL	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	245	7	6		
Chromium	ppm	ASTM D5185m	>5	2	0	0		
Nickel	ppm	ASTM D5185m	>5	<1	0	0		
Titanium	ppm	ASTM D5185m	>3	<1	0	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>7	2	0	<1		
Lead	ppm	ASTM D5185m	>12	<u> </u>	1	0		
Copper	ppm	ASTM D5185m	>30	<u>^</u> 87	11	9		
Tin	ppm	ASTM D5185m	>9	<u> </u>	1	<1		
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		0	0	0		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		0	0	0		
Manganese	ppm	ASTM D5185m		2	<1	<1		
Magnesium	ppm	ASTM D5185m		39	81	21		
Calcium	ppm	ASTM D5185m		0	1	0		
Phosphorus	ppm	ASTM D5185m		0	12	49		
Zinc	ppm	ASTM D5185m		0	9	0		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>60	5	0	2		
Sodium	ppm	ASTM D5185m		1	0	0		
Potassium	ppm	ASTM D5185m	>20	0	1	0		
Water	%	ASTM D6304	>.1	0.036	0.023	0.086		
ppm Water	ppm	ASTM D6304	>1000	370	235.1	860		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.28	0.34	0.23		
VISUAL		method	limit/base		history1	history2		
White Metal	scalar	*Visual	NONE	HEAVY	NONE	NONE		
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	▲ MODER		
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML	NORML	▲ HAZY		
Odor	scalar	*Visual	NORML	NORML	NORML	NORML		

NEG

NEG

NEG

Emulsified Water

scalar *Visual

scalar *Visual

>.1

0.2%

NDREW WYDERKA DENELIM



OIL ANALYSIS REPORT

