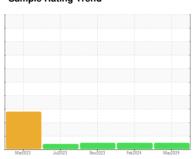


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# LIM MLU3 LIM\_MLU3 Inboard Pump

{not provided} (--- GAL)

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

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

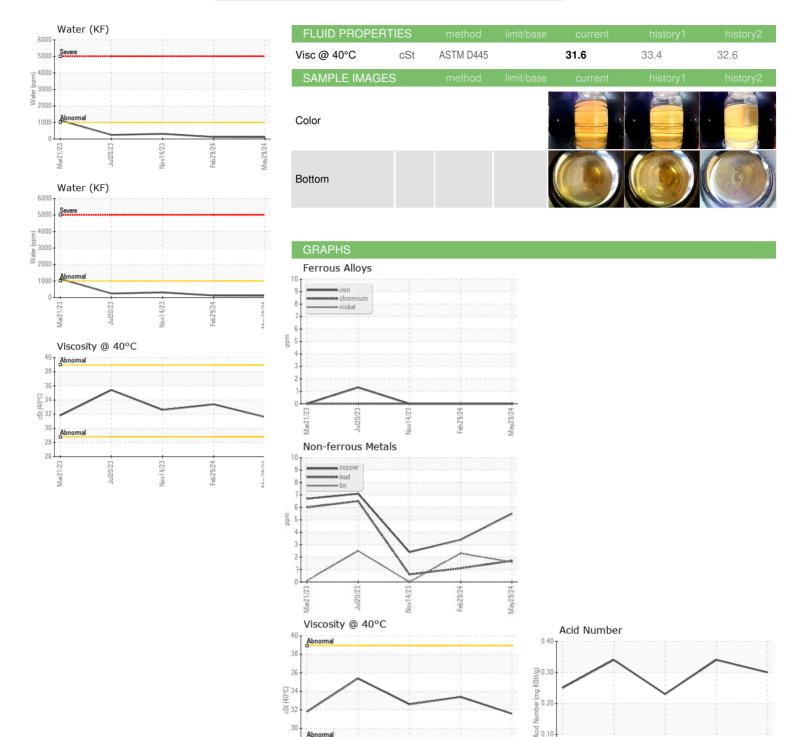
## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Mar2023	Jul2023	Nov2023 Feb2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037267	RP0039857	RP0032531
Sample Date		Client Info		29 May 2024	29 Feb 2024	14 Nov 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	0	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	<1	<1
Lead	ppm	ASTM D5185m	>12	2	1	<1
Copper	ppm	ASTM D5185m	>30	6	3	2
Tin	ppm	ASTM D5185m	>9	2	2	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
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		<1	<1	0
Magnesium	ppm	ASTM D5185m		66	82	28
Calcium	ppm	ASTM D5185m		1	<1	0
Phosphorus	ppm	ASTM D5185m		3	<1	0
Zinc	ppm	ASTM D5185m		6	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>.1	0.011	0.012	0.031
ppm Water	ppm	ASTM D6304	>1000	114	124	313
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.30	0.34	0.23
\//01141						
VISUAL		method	limit/base	current	history1	history2
VISUAL White Metal	scalar	*Visual	NONE	current NONE	NONE	NONE
	scalar scalar					
White Metal		*Visual	NONE	NONE	NONE	NONE
White Metal Yellow Metal	scalar	*Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE
White Metal Yellow Metal Precipitate	scalar scalar	*Visual *Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE NONE
White Metal Yellow Metal Precipitate Silt	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual  *Visual  *Visual  *Visual  *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE LIGHT	NONE NONE NONE NONE	NONE NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	*Visual  *Visual  *Visual  *Visual  *Visual  *Visual	NONE NONE NONE NONE NONE	NONE NONE NONE LIGHT NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar	*Visual  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual	NONE NONE NONE NONE NONE NONE NONE NORML	NONE NONE NONE LIGHT NONE NORML NORML NEG	NONE NONE NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NONE NONE NORML NORML NEG



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

: RP0037267 Lab Number : 06202853

28 26

Unique Number : 11070314

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024

Nov14/23

**Tested** : 10 Jun 2024 Diagnosed

: 10 Jun 2024 - Don Baldridge

0.00

**ENERGY TRANSFER - LIMA** 1520 BUCKEYE RD LIMA, OH

US 45804 Contact: ANDREW WYDERKA

andrew.wyderka@energytransfer.com T: (419)618-1505

Nov14/23

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)

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