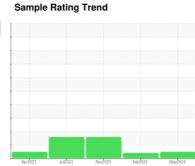


# **OIL ANALYSIS REPORT**







# MLU-2 Component Outboard Pump

Machine Id

**ROYAL PURPLE SYNFILM GT 32 (--- 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.

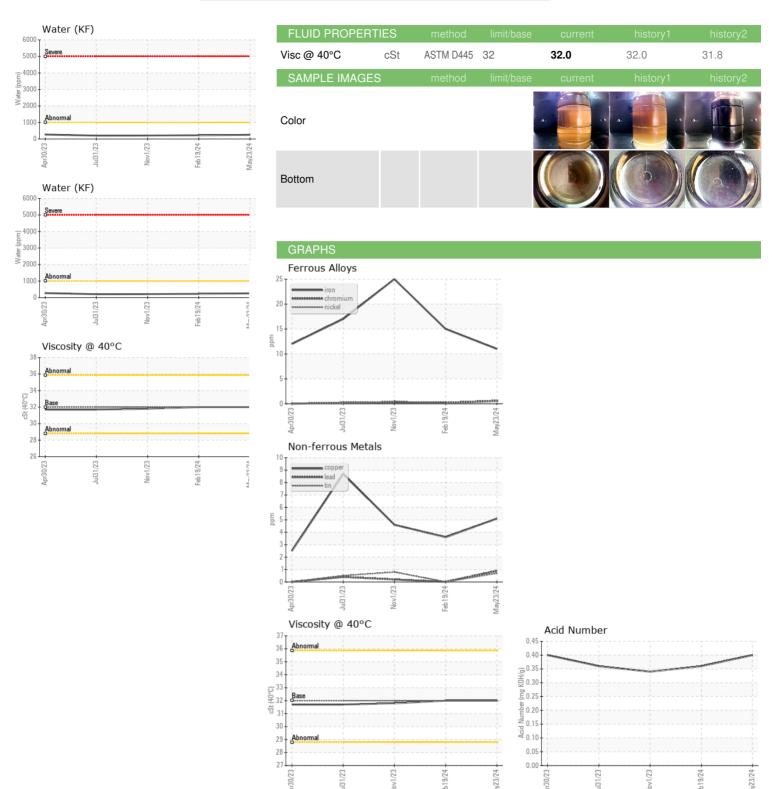
### **Fluid Condition**

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039914	RP0036094	RP0037129
Sample Date		Client Info		23 May 2024	19 Feb 2024	01 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	11	15	25
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Γitanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	1	0	0
Aluminum	ppm	ASTM D5185m	>7	1	0	<1
_ead	ppm	ASTM D5185m	>12	<1	0	<1
Copper	ppm	ASTM D5185m	>30	5	4	5
Γin	ppm	ASTM D5185m	>9	<1	0	<1
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		79	74	88
Calcium	ppm	ASTM D5185m		0	0	3
Phosphorus	ppm	ASTM D5185m		3	0	4
Zinc	ppm	ASTM D5185m		0	0	0
001						
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	method ASTM D5185m	limit/base >60	current 2	history1 <1	history2 2
Silicon						
Silicon Sodium Potassium	ppm	ASTM D5185m		2	<1	2
Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>60	2 2	<1 <1	2
Silicon Sodium Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>60 >20	2 2 <1	<1 <1 0	2 3 <1
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>60 >20 >.1	2 2 <1 0.025	<1 <1 0 0.022	2 3 <1 0.020
Silicon Sodium Potassium Water opm Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>60 >20 >.1 >1000	2 2 <1 0.025 255	<1 <1 0 0.022 226	2 3 <1 0.020 209
Silicon Sodium Potassium Water opm Water FLUID DEGRADA	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>60 >20 >.1 >1000 limit/base	2 2 <1 0.025 255 current	<1 <1 0 0.022 226 history1	2 3 <1 0.020 209 history2
Silicon Sodium Potassium Water DPM Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>60 >20 >.1 >1000 limit/base	2 2 <1 0.025 255 current 0.40 current NONE	<1 0 0.022 226 history1 0.36 history1 NONE	2 3 <1 0.020 209 history2 0.34
Silicon Sodium Potassium Water DPM Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D8045	>60 >20 >.1 >1000 limit/base limit/base NONE NONE	2 2 <1 0.025 255 current 0.40 current	<1 <1 0 0.022 226 history1 0.36	2 3 <1 0.020 209 history2 0.34 history2
Silicon Sodium Potassium Water Opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm % ppm XTION mg KOH/g	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>60 >20 >.1 >1000 limit/base limit/base	2 2 <1 0.025 255 current 0.40 current NONE NONE	<1 0 0.022 226 history1 0.36 history1 NONE	2 3 <1 0.020 209 history2 0.34 history2
Silicon Sodium Potassium Water Opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm % ppm MTION mg KOH/g scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D8045 method *Visual	>60 >20 >.1 >1000 limit/base limit/base NONE NONE	2 2 <1 0.025 255 current 0.40 current NONE	<1 0 0.022 226 history1 0.36 history1 NONE	2 3 <1 0.020 209 history2 0.34 history2  MODER NONE
Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm % ppm % ppm % scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  method ASTM D8045  method  *Visual  *Visual	>60 >20 >.1 >1000 limit/base NONE NONE NONE	2 2 <1 0.025 255 current 0.40 current NONE NONE	<1 0 0.022 226 history1 0.36 history1 NONE NONE	2 3 <1 0.020 209 history2 0.34 history2  MODER NONE NONE
Silicon Sodium Potassium Water Opm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm % ppm TION mg KOH/g scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  method ASTM D8045  method  *Visual  *Visual  *Visual  *Visual	>60 >20 >.1 >1000 limit/base NONE NONE NONE	2	<1	2 3 <1 0.020 209 history2 0.34 history2  MODER NONE NONE
Silicon Sodium Potassium Water Dpm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm % ppm MTION mg KOH/g scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D8045 method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>60 >20 >.1 >1000 limit/base NONE NONE NONE NONE NONE NONE	2 2 <1 0.025 255 current 0.40 current NONE NONE NONE NONE LIGHT	<1 <1 0 0.022 226 history1 0.36 history1 NONE NONE NONE NONE NONE NONE MODER	2 3 <1 0.020 209 history2 0.34 history2  MODER NONE NONE NONE MODER
Silicon Sodium Potassium Water Dpm Water FLUID DEGRADA Acid Number (AN) VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm % ppm % ppm % scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D8045  method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>60 >20 >.1 >1000 limit/base NONE NONE NONE NONE NONE NONE NONE NON	2 2 <1 0.025 255 current 0.40 current NONE NONE NONE NONE LIGHT NONE	<1 <1 0 0.022 226 history1 0.36 history1 NONE NONE NONE NONE NONE NONE NONE NON	2 3 <1 0.020 209 history2 0.34 history2  MODER NONE NONE NONE NONE NONE NONE
Silicon Sodium Potassium Water opm Water FLUID DEGRADA Acid Number (AN)	ppm ppm ppm % ppm % ppm % scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D8045  method *Visual	>60 >20 >.1 >1000 limit/base NONE NONE NONE NONE NONE NONE NONE NON	2 2 <1 0.025 255 current 0.40 current NONE NONE NONE NONE NONE LIGHT NONE NORML	<1 0 0.022 226 history1 0.36 history1 NONE NONE NONE NONE NONE NONE NONE NON	2 3 <1 0.020 209 history2 0.34 history2  MODER NONE NONE NONE NONE NONE NONE NONE NO



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. : RP0039914 Lab Number : 06194072 Unique Number : 11056195

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 29 May 2024 **Tested** : 30 May 2024 Diagnosed

: 31 May 2024 - Angela Borella

**ENERGY TRANSFER - LONGVIEW** 

1010 COX DIARY RD LONGVIEW, TX US 75601

Contact: Service Manager

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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F: