

## **OIL ANALYSIS REPORT**

### Area Tampa [Tampa] Oil - Port Reduction Gear

Starboard Reduction Gear

MOBIL DELVAC 1640 (28 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

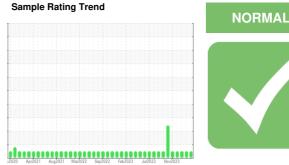
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

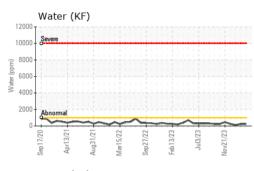
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

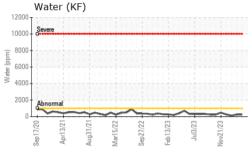


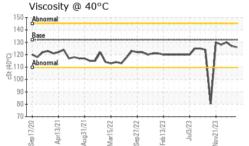
#### SAMPLE INFORMATION method WC0805304 Client Info WC0805285 WC0845935 Sample Number 13 Mar 2024 14 Feb 2024 Sample Date Client Info 17 Jan 2024 10229 Machine Age hrs **Client Info** 22046 10229 Oil Age hrs Client Info 9837 2266 9837 Oil Changed **Client Info** Not Changd Not Changd Not Changd Sample Status NORMAL NORMAL NORMAL WEAR METALS 5 ASTM D5185m >150 7 6 Iron ppm Chromium ppm ASTM D5185m >10 0 0 0 0 Nickel ppm ASTM D5185m >10 0 0 Titanium ASTM D5185m 0 0 0 ppm 0 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 2 2 2 Lead ASTM D5185m >100 0 0 <1 ppm 6 3 2 Copper ASTM D5185m >50 ppm Tin ppm ASTM D5185m >10 0 0 <1 Vanadium ASTM D5185m 0 0 0 ppm Cadmium ppm ASTM D5185m 0 0 0 7 7 7 Boron ASTM D5185m ppm 0 Barium ppm ASTM D5185m 0 0 35 31 31 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m <1 163 Magnesium ASTM D5185m 188 161 ppm 2962 2877 2744 Calcium ppm ASTM D5185m Phosphorus ppm ASTM D5185m 613 588 603 Zinc ASTM D5185m 695 637 666 ppm Sulfur ASTM D5185m 6410 5882 6155 ppm CONTAMINANTS Silicon ppm ASTM D5185m >50 4 4 4 2 3 2 Sodium ppm ASTM D5185m Potassium ASTM D5185m >20 3 0 2 ppm 0.023 0.024 0.011 Water % ASTM D6304 >0.1 ppm Water ASTM D6304 >1000 234 246 ppm 118 FLUID DEGRADATION Acid Number (AN) mg KOH/g **ASTM D8045** 0.12 1.084 0.19



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	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	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	132	126	127	130
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom

