

# TRAC Integrated Thruster & Stabilizer System Recommended Inspection & Service Intervals

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**	** Indicates <u>Maximum Interval</u> . Recommend more frequent inspection.
Each Engine RM Check	Inspect Hydraulic Reservoir oil fill level and temperature at sight gauge.
DAILY (After System Start-Up)	Check Cooling Pump operation & discharge.
DAILY (While Underway "ACTIVE")	Check System Pressure at Stabilizer Manifold gauge for normal and stable operating pressure.
DAILY (While Underway "ACTIVE")	Listen for normal Stabilizer Actuator sounds.
WEEKLEY (DAILY When Cruising)	Inspect Gear-oil level at Stabilizer Actuator Header Tanks (not applicable to systems with Notch-Lock Yokes).
MONTHLY (WEEKLY When Cruising)	Inspect Stabilizer Actuator Mounting Area for water-tight integrity.
MONTHLY **	Inspect Thruster Mounting Bolt area for water tight integrity.
MONTHLY (WEEKLY When Cruising)	Inspect Stabilizer Actuators and Cylinders for oil leaks. Inspect Cylinder Hoses for chafing.
MONTHLY **	Inspect Thruster Gear-oil Header Tank level. Level change may indicate Shaft Seal leakage.
MONTHLY **	For Hydraulic Pump Drivelines with rubber or U-joint components check drivelines for smooth rotation and normal sounds during Thruster use.
MONTHLY **	Check Hydraulic Pump & Clutch Assembly during Thruster use for normal pump & clutch sounds.
3 MONTHS	Check Thruster Propellers and Tunnel for marine growth and clean as required.
3 MONTHS	Check Pencil Zincs at Reservoir Heat Exchanger(s).
3 MONTHS	Inspect Hydraulic System Cooling Pump. When pump head has grease fittings, inject small amount of grease under gentle pressure while pump is turning.
6 MONTH	For Hydraulic Pump Drivelines with rubber element(s) inspect rubber for visual signs of crazing or wear.
6 MONTH	Check Hydraulic Reservoir Return Filter Pressure Gauge during full thrusting. Change filter as indicated by Gauge.
6-12 MO	For Hydraulic Pump Drivelines with U-Joint compnents, pump grease slowly into lube fittings just until grease appears at cap seals.
YEARLY	Check Thruster Bell Housing Bonding Strap. Clean and tighten as necessary.
YEARLY	Examine all Field Electrical Connections. Clean and tighten connections as necessary.
YEARLY	Check Stabilizer Actuator Bonding Strap. Clean and tighten as necessary.
YEARLY	Inspect Thruster Gearbox and Propellers for corrosion. Clean and repaint as needed.
YEARLY	Replace Reservoir Return Filter Element.
YEARLY	Replace Cooling Pump Impeller when fitted to rubber impeller pump.
YEARLY	Inspect all Hydraulic System Hoses for chafing or external damage; Inspect all hydraulic fittings for leakage.

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1 to 2 YEARS	Inspect and Replace Stabilizer Shaft Zincs. Inspect and replace more frequently as indicated by condition of zinc.
2 YEARS OR LESS	Inspect Cooling Pump Impeller when system has centrifugal pump.
1000 HRS	Inspect Cylinder fit to Trunion Bushings. Cylinders should move axially in bushings without radial slop. Original trunion pin dia. clearance is 0.006 inch.
5 YEAR	Replace Thruster Propeller Shaft Seals.
5 YEAR	Change Thruster Gearbox Oil.
6 YEARS	Replace Stabilizer Actuator Shaft Seals.
6 YEARS OR 2000 HRS	Replace Stabilizer Actuator Cylinder(s).