

R22 SERVICE LETTER SL-59

DATE: 07 September 2011

TO: R22 owners, operators, and maintenance personnel

SUBJECT: MRGB Oil Level Fluctuation

ROTORCRAFT AFFECTED: R22 helicopters S/N 4442 thru 4509, unless previously accomplished.

BACKGROUND: RHC has received reports of oil level fluctuating in main rotor gearboxes with sealed drive shafts. During cooling after flight, low pressure inside a sealed shaft may draw oil up into the shaft and affect oil level indication. If oil level fluctuates, a vent hole may be drilled in the aluminum spacer at the top of the shaft to equalize pressure.

COMPLIANCE PROCEDURE:

1. Refer to Figure 1. If data plate indicates A251-1 shaft is revision T (or subsequent), or if A251-1 revision S (or prior) shaft's data plate is marked with a yellow paint dot, the recommendations of this letter have been complied with and no further action is necessary.
2. If main rotor gearbox oil level fluctuates and no leaks are detected, remove main rotor blades per R22 Maintenance Manual (MM) § 9.111.
3. Remove main rotor hub per MM § 9.121.
4. Refer to Figure 1. Mark hole location in A252-1 spacer as shown; remove sealant as required.
5. Vacuum debris while drilling and slowly drill 0.063-inch diameter hole thru spacer (material is 0.060 inch thick aluminum; adjust drill stop accordingly).
6. Mark shaft data plate with yellow paint dot in upper left corner.
7. Install main rotor hub per MM § 9.122.
8. Install main rotor blades per MM § 9.112.
9. Track and balance main rotor per MM § 10.230.
10. Make appropriate maintenance record entries.

(OVER)

Approximate Cost:

Consumables: A257-9 Anti-seize
MS20995C32 0.032-inch dia. Safety wire

Parts:	Balance weight(s), as required	Various
	A117-5, -6, -7, or -8 Shim(s), as required	\$ 11.00 ea
	(3) A189-10 Nut, as required	\$ 13.25 ea
	(2) B330-13 Palnut	\$ 0.50 ea
	(3) MS24665-355 Cotter pin	\$ 0.06 ea
	(3) NAS630-80 Bolt, as required	\$ 34.25 ea

Parts may be obtained from any R22 Dealer or Service Center, or ordered directly from RHC Customer Service via www.robinsonheli.com, fax, or phone.

Labor: 7.0 man-hours, or 1.0 man-hour when performed concurrently with an inspection requiring blade removal, such as [AD 88-26-01 R2](#).

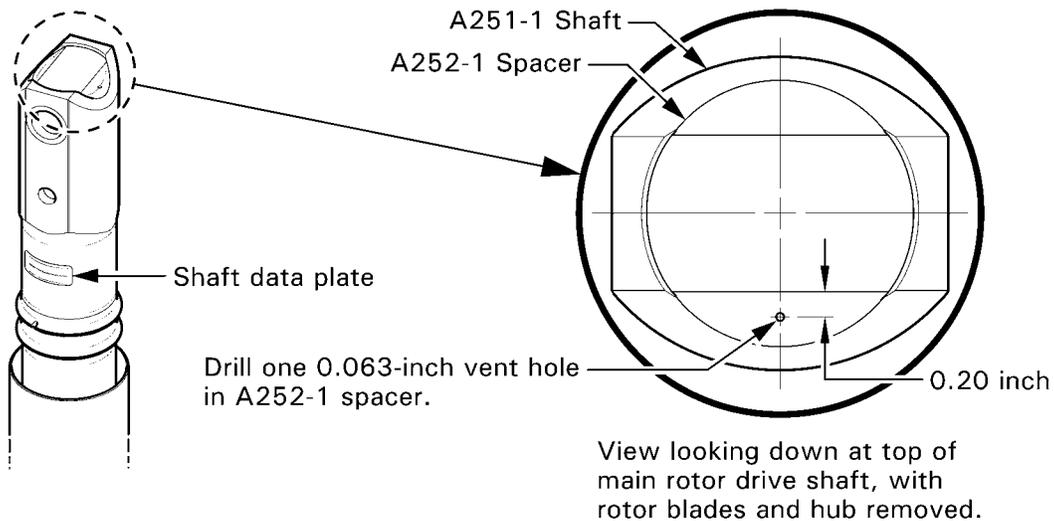


FIGURE 1