
CAS MEMORANDUM M-17-01

DATE: 04/24/17
TO: ALASKA ALL
FROM: FAIRBANKS MAINTENANCE
RE: THIXO SYN APPROVED LOCATIONS AND ALTERNATES

Recently there have been questions from the field locations about the types of grease we are using on the aircraft and their application. This was touched on in the Feb/March safety notes but may need more clarification.

First, Bell no longer updates the consumables list that is in the Standard Practices Manual. They now keep the consumables list online under the General Information tab of the pubs page. It is important to note that this list is only available while you are connected to the internet and will not work using the offline library.

Let's start with ThixO SYN (C-172). ThixO SYN is the only grease with the Bell specification 299-947-554 (3820-0). ThixO SYN has a temperature range of -40F to 572F. Looking at the consumables list, TB's, and chapter 12 servicing we see that ThixO SYN (C-172) is a direct replacement for Mobil 28 (C-001) grease in the following locations:

- 206L M/R Hub Assy
- 206L M/R Trunnion Assy
- 206L M/R pitch horn assy
- 206L T/R trunnion Assy
- 206L T/R Pitch change assy
- 206L Swashplate Assy
- 407 M/R Pitch link universal bearing assy

This is in reference to the TB 206L-TB-13-247, and 407-TB-16-119 and consumable list page 11. Additionally ThixO SYN (C-172) can also be used anywhere CPC (C-104) is called for, again, reference 206L-TB-13-247, Consumable list Page 7. ThixO #2 (C-561) shall not be used in any of these locations.

Now we look at ThixO #2 (C-561) Also known as ThixO grease. Bell specification (3810-0). This grease is an approved alternate for CPC (C-104), Royco 22 (C-525), and Plastilube #3 (C-012). Reference 206L / 407 MM Chapter 12, And consumable list page 7. ThixO #2 (C-561) shall only be used as an alternate in the following locations.

- Tail rotor splines
- Tach gen spline on the engine gearbox
- Rotor tach gen
- Hyd. pump spline
- 407 expandable blade bolts

ThixO #2 (C-561) and Plastilube #3 (C-012) both have a temperature rating of 0F to 482F. Royco 22 (C-525) has a temperature rating of -65F to 350F.

If you have any questions contact Isaac Mackey at (907) 452-1197

Thank you

Isaac Mackey

Fairbanks Maintenance Lead



1915 Donald Ave.

Fairbanks, AK 99701

Tel 907 452-1197

Cell 907 378-8421

www.maritimehelicopters.com