

**⚠ WARNING**

*Proper lubrication is critical to safe operation and must be performed by qualified technicians.*

These instructions describe the mast lubricant mixing procedure and the lubricant application procedure.

## Document History

Document Numbers	Dates	Remarks
TP-5616101-00	9/2022	Initial Release

\*This manual was written based on Assembly Work Instruction ASM-WI-011.

## Required Equipment, Instruments and Supplies

For creating the lubricant mixture, the following items are needed:

*Table 1 Required Equipment, Instruments and Supplies*

Clean, Empty Container	Pneumatic Mast Grease Kit (P/N 4258101)	Mast Oil (P/N 900600)
Stirring Stick	Rags	Scale

## Lubricant Mixing Process

To mix the lubricant properly:

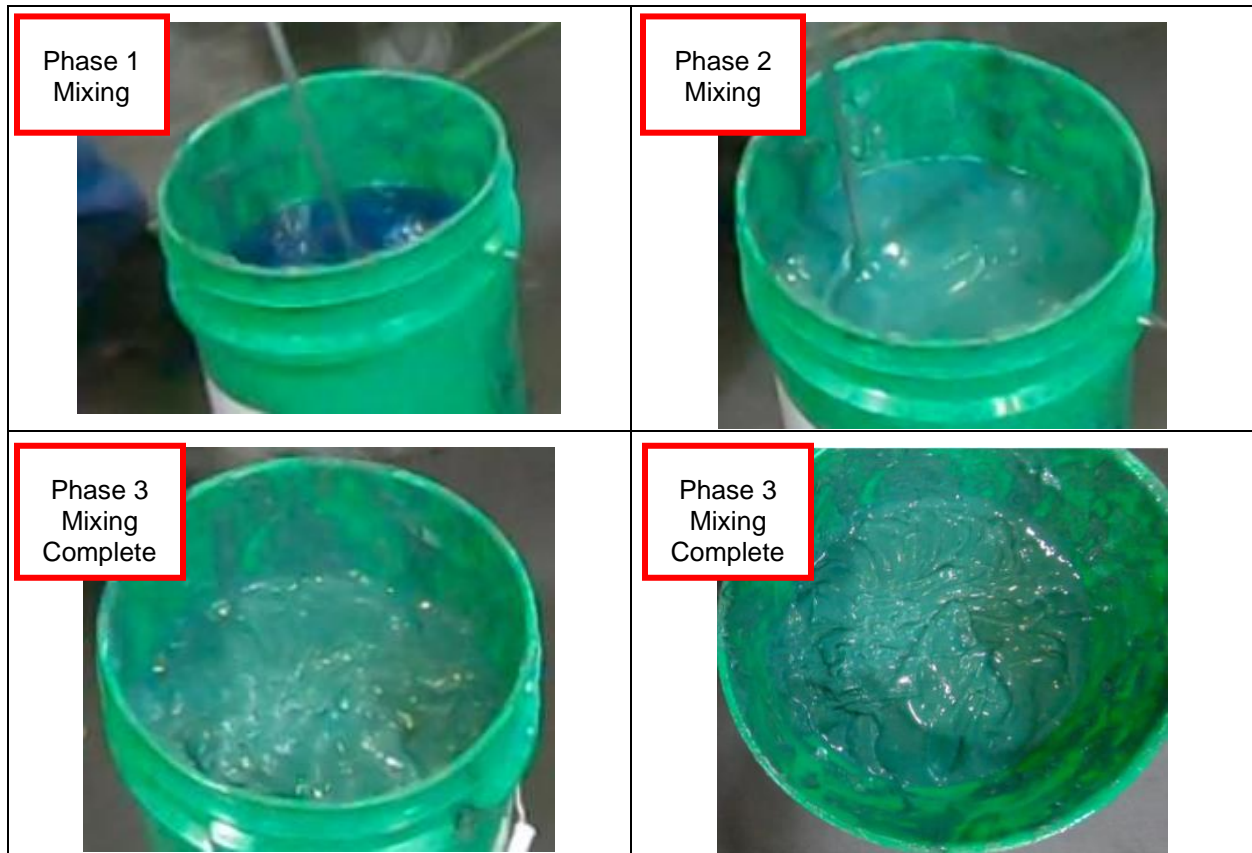
1. Place a clean, empty container onto a scale. From here forward, this will be referred to as the “mixing container”.
2. Make sure the scale units are set to “oz”.
3. Zero the scale using the tare function. The scale will now ignore the weight of the mixing container.
4. Open the can of grease from the Pneumatic Mast Grease Kit (P/N 4258101). Scoop the grease into the mixing container until the desired value from Table 2 is achieved. The grease is noted as “Part A” in the table.

*Table 2 Mix Ratio by Weight*

Part A [oz.]	Part B [oz.]	Mixture (A + B) [oz.]
5.55	8.32 (approximately ½ bottle)	13.87
11.09	16.64 (approximately 1 bottle)	27.73

5. Based on the value of grease (“Part A”) used, pour Mast Oil (“Part B”) into the mixing container until the corresponding “Mixture (A+B)” weight is reached.
6. Using a stirring stick, thoroughly and vigorously mix the Mast Oil with the grease in the mixing container. Table 3 shows how the appearance of the lubricant mixture changes throughout the mixing process. Do not stop mixing until the consistency of the mixture looks identical to Phase 3 shown in Table 3 (two views of Phase 3 are shown).

*Table 3 Phases of Mixing*



7. Use rags to remove excess lubricant off the stirring stick.
8. Dispose of the used stirring stick.

## Lubricant Application

Refer to the Section titled “Replace Seals, Expanders, and Yoke Assemblies on Heavy Duty, Super Heavy Duty, and Ultra Heavy Duty Masts” in the Pneumatic Mast Operating Instructions (TP-4022306) for applying the lubricant mixture to the seals.

Note: In the Pneumatic Mast Operating Instructions Manual (TP-4022306), use the grease mixture created from this procedure any time the manual says “Pneumatic Mast Grease Kit”.