

COMANCHE GEAR



8192 SANCTUARY DR; UNIT 1 ∞ NAPLES, FL 34104

PHONE & FAX 239/593-6944 ∞ CELL 239/404-7524

MKURKE@COMANCHEGEAR.COM

GREASE MIXING INSTRUCTIONS

HOW TO MAKE A \$750 TUB OF DUKES GREASE FOR \$25! WTF ARE THEY THINKING?

EMPTY THE CONTENTS OF A 14-OUNCE TUBE OF AEROSHELL 33MS INTO A QUART-SIZE PAINT CAN, SLOWLY ADD 4 TABLESPOONS OF MOS2 A LITTLE AT A TIME [SPRINKLE IT, DON'T JUST DUMP IT] WHILE "FOLDING" WITH A PAINT STIRRER JUST LIKE MY FAVORITE RUM PIE RECIPE. CONTINUE ADDING THE MOS2 AND STIR. SCRAPE THE SIDES AND BOTTOM WITH A SPATULA AND STIR SOME MORE.

NEXT USING AN ELECTRIC MIXER WITH WIRE BEATER, USE SLOW SPEED UNTIL YOU FEEL IT'S HOMOGENEOUS. ADD MOBIL1 5W30 AS NECESSARY TO MODIFY THE CONSISTENCY; START WITH A TABLESPOON WHICH MAY BE ENOUGH [I DIDN'T PAY TOO MUCH ATTENTION TO THIS DETAIL]. USE THE SPATULA AGAIN; AND CONTINUE WITH THE MIXER UNTIL YOU HAVE THE CONSISTENCY YOU WANT. I DIDN'T TRY MY PAINT SHAKER, WHICH MIGHT BE A GOOD APPROACH TOO.

YOU'LL SEE THE OIL WILL SEPARATE SOMEWHAT AFTER A WHILE [A WEEK OR 2]. JUST STIR AGAIN WITH A TONGUE DEPRESSOR AND IT SEEMS FINE. KEEP THE TONGUE DEPRESSOR AND A SMALL "ACID" BRUSH RIGHT IN THE CAN.

THE [MIN] 10% BY VOLUME SPECIFIED IN THE MOONEY BULLETIN IS EXCEEDED SOMEWHAT BY USING 4 TABLESPOONS OF MOS2. I DID THE MATH A WHILE AGO AND NOW DON'T RECALL THE CONVERSION FROM THE GRAMS PERSPECTIVE. I ACTUALLY USED MY TRIPLE-BEAM BALANCE TO BEGIN, DECIDING IT WAS TOO COMPLICATED EACH TIME. I FIGURED THE RELATIONSHIP AND THEN JUST EYE-BALLED THE RELATIVE VOLUME WITH A BEAKER; THAT'S HOW I ARRIVED AT THE 4 TABLESPOON PROPORTION.

I'VE SEEN MANY DUKES TRANSMISSIONS WITH MINIMAL GREASE RIGHT FROM THE FACTORY; THEY STILL SEEM TO SURVIVE. THESE HAVE ALL BEEN THE LATER-VERSION WITH THE BRONZE WHEEL GEAR WHICH IS BETTER. THIS IS TOO SCARY FOR ME TO DUPLICATE SO I FILL THE HOUSING WITH THE GREASE AND TO ASSURE COMPLETE LUBRICATION OF THE BEARINGS PROCEED AS FOLLOW. USING AN ADAPTER THREADED INTO THE TOP HOLE FARTHEST FROM THE MOTOR, AND A GREASE GUN, PUMP GREASE UNTIL IT CREEPS OUT THROUGH THE THRUST BEARING SEAL. THIS WAY YOU WILL HAVE FILLED ALL THE NOOKS AND CRANNIES WITH GREASE.

THE MOONEY BULLETIN PART II INDICATES A SERVICE INTERVAL OF 100 HOURS; ADDING A SQUIRT OF GREASE THROUGH A GREASE FITTING. EVEN THOUGH THE 500-HOUR SERVICE INTERVAL SPECIFIED IN THE PIPER COMANCHE SERVICE MANUALS IS A DIFFERENT SERVICE APPROACH, I FEEL THIS IS ADEQUATE ESPECIALLY WITH THE GREASE IMPROVEMENT.

GOOD LUCK,