

PROPRIETARY NOTICE: THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF COTTA TRANSMISSION COMPANY. THIS DRAWING IS NOT TO BE COPIED OR USED FOR THE PURPOSE OF MANUFACTURING EXCEPT BY WRITTEN CONSENT OF COTTA TRANSMISSION COMPANY. TORSIONAL VIBRATIONS EXIST IN ALL ROTATING SYSTEMS. IT IS THE SOLE RESPONSIBILITY OF THE EQUIPMENT MANUFACTURER OR ASSEMBLER TO INSURE THAT NO DAMAGING CRITICALS FALL IN THE OPERATING RANGE OF THE SYSTEM.

LTR	DESCRIPTION	ECN	DATE	BY

FORK ADJUSTMENT:

1. PRIOR TO CYLINDER ASSEMBLY, SHIFT ROD TO PUSH CLUTCH AGAINST GEAR SHOULDER. BACK SHIFT ROD AWAY FROM GEAR 0.19"
2. ROTATE SHIFT ROD IN FORK UNTIL A 0.12 OFFSET BETWEEN THE CYLINDER SPACER #44 & THE SHIFT ROD IS ACHIEVED (SHIFT ROD FACE BELOW SPACER FACE)
3. ROTATE ROD EITHER DIRECTION UNTIL THE FLAT IN THE ROD LINES UP WITH THE SETSCREW IN THE FORK. MAXIMUM ROTATION IS 45°.
4. TIGHTEN SETSCREW IN FORK TO NOTED TORQUE USING LOCTITE THREADLOCKER

PTO DRIVE PORT
1/8-27 NPT
APPLY 60/120 PSI OF CLEAN DRY AIR
AIR PRESSURE TO REMAIN ON
AFTER SHIFT IS COMPLETE

DIRECT DRIVE PORT
1/8-27 NPT
APPLY 60/120 PSI
OF CLEAN DRY AIR
AIR PRESSURE TO REMAIN ON
AFTER SHIFT IS COMPLETE

(151) (2) SWITCHES SUPPLIED
FOR POSITION SENSING
5 TO 28 VDC 40 mA MAX
PNP (CURRENT SOURCING)
VOLTAGE DROP 0.8 V MAX
20" PIGTAIL LEAD
BROWN WIRE - POSITIVE
BLUE WIRE - COMMON
BLACK WIRE - LOAD

SHIM FOR .003/.005 END PLAY
APPLY LOCTITE #515
BETWEEN CASE AND SHIM (133)

5/8-11 UNC THREAD, 1.2 DEEP
TYP (2) EQUALLY SPACED
ON A Ø7.125 BC
SAE (2) BOLT "C" PAD

1" - 8 UNC THREAD, 1.5 DEEP
(4) HOLES FOR GEARBOX MOUNTING

30° INVOLUTE SPLINE
14 TEETH, 12/24 PITCH
SAE "C" SPLINE

1/2-13 UNC THREAD, 1.2 DEEP
TYP (4) EQUALLY SPACED
ON A Ø6.375 BC
SAE (4) BOLT "C" PAD

1810HR SERIES YOKE
6.5-4-1901-1
TYP (2)

55 TORQUE TO 120/140 FT-LB
TYP (2)

15 SEAL YOKE END WITH
SILICONE SEALANT
TYP (2)

BREATHER & FILLER

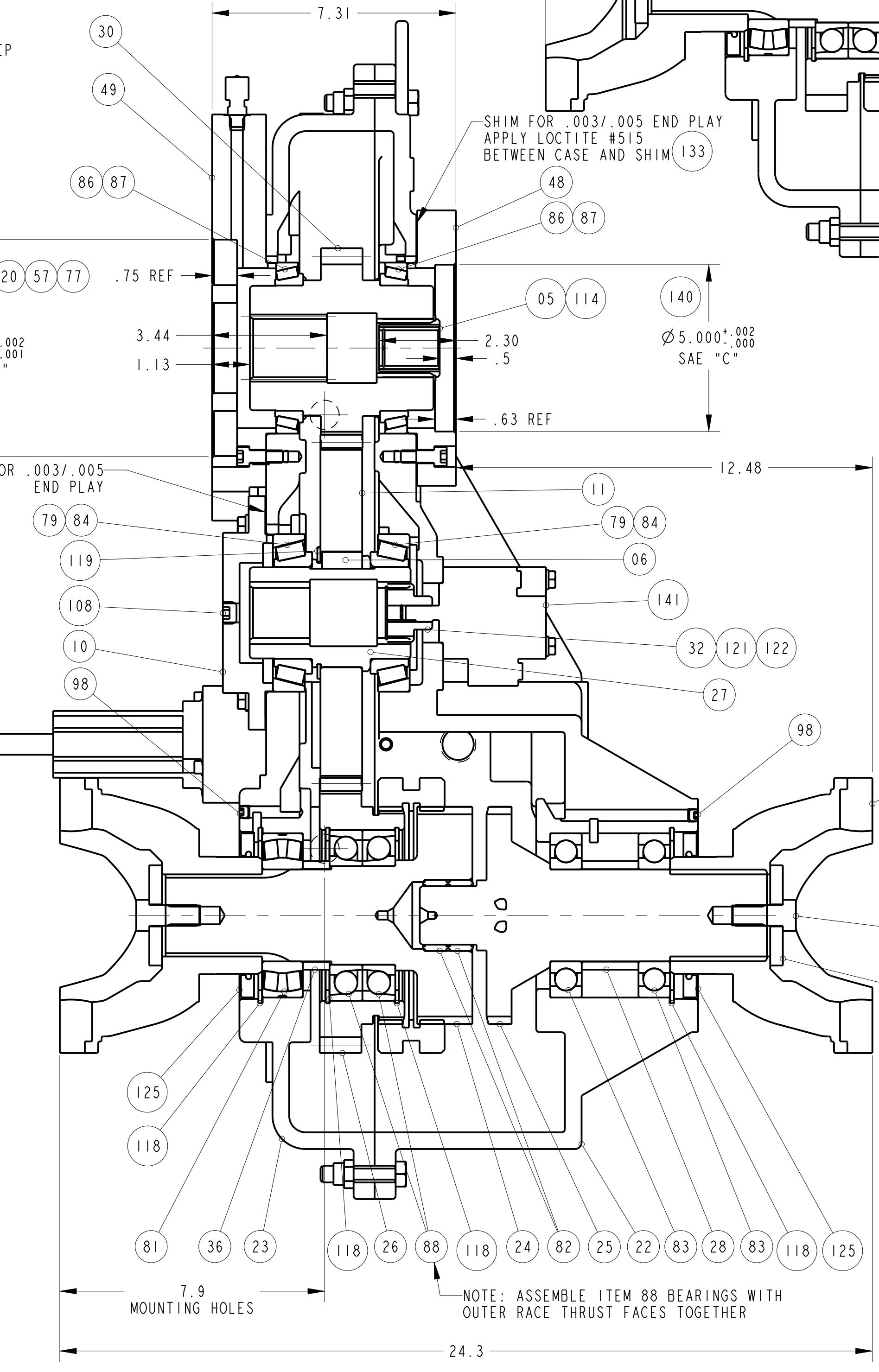
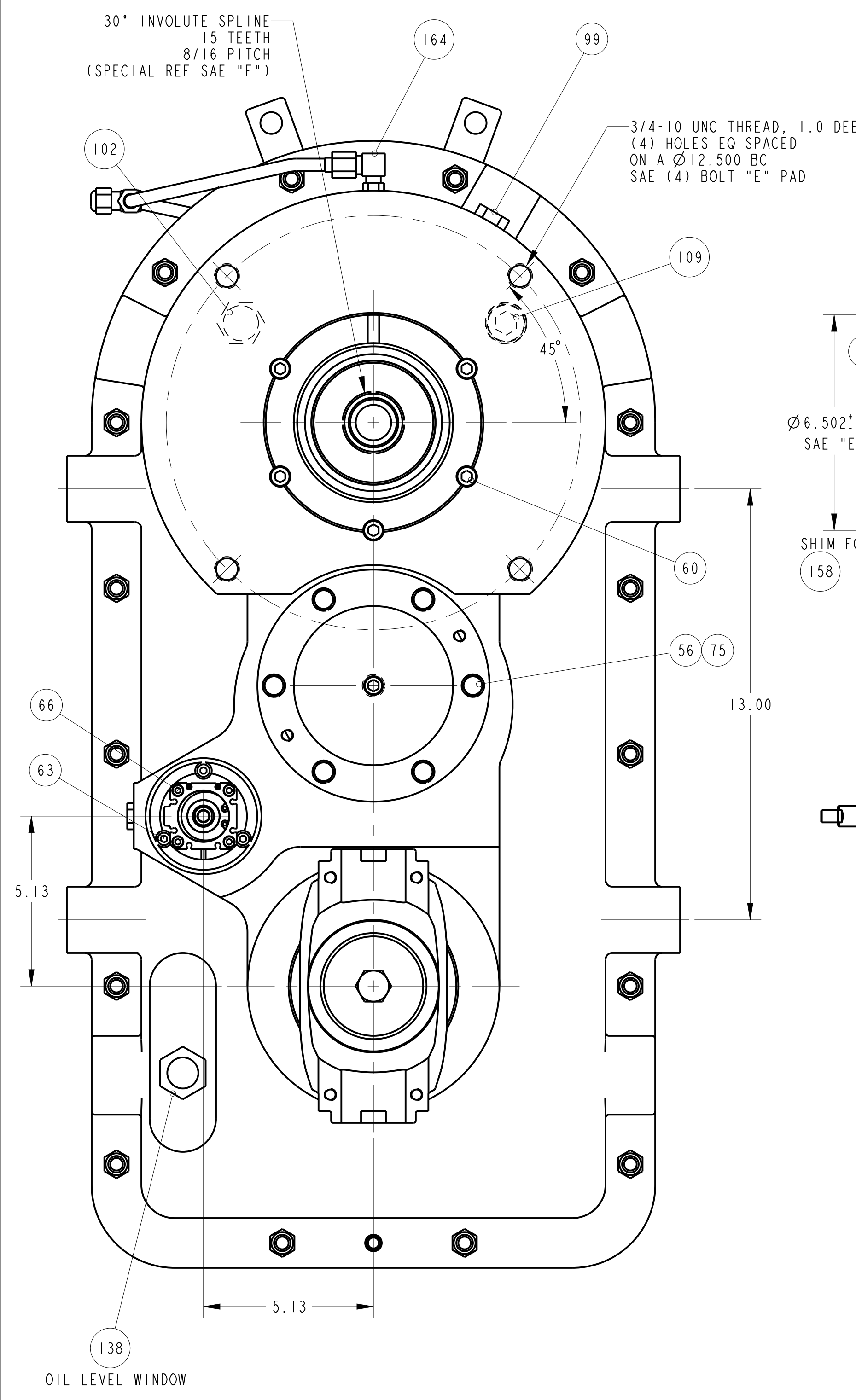
NAMEPLATE (143)

MAGNETIC DRAIN PLUG

9/16-18 SAE 37° FLARE
SAE -6
(103) (163) OIL INLET

(07) (62) (70)
LIFTING STRAP
TYP (2)

3/8 NPT
OIL OUTLET
TO COOLER
.187 IN³/REV



SECTION A-A

SECTION B-B

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RATIO: 1 TO 1.41 OVERSPEED PTO
MAX SPEED: 3000 RPM
MAX TORQUE: 1200 FT-LB THRU GEARS
MAX THRU-DRIVE TORQUE: 12500 FT-LB
APPROX WEIGHT: 530 LB

NOTE: INSTALL LOCTITE #515 OR EQUIVALENT
AT ALL MACHINED SPLITLINES UNLESS A
GASKET IS FURNISHED. SEAL ALL NON-MACHINED
INTERFACES WITH SILICONE SEALANT.

UNLESS OTHERWISE NOTED
1. USE STANDARD CAPSCREW TIGHTENING TORQUES
APPLYING LOCTITE 242 OR EQUIVALENT.

TEST PER SPECIFICATION DE-9905. REFERENCES: DE-0801, TB01-101, DE-0102		REVISION DATE	
MODEL	TR2238	Nov-16-16	
DRAWN	RTD	DATE	Nov-01-16
CHECKED	JRS	DATE	Nov-16-16
APPROVED		DATE	
SCALE	0.375	SHEET	1 OF 1
DIMENSIONS ARE IN INCHES		PART NAME	SPLIT SHAFT PTO
		PART NUMBER	TR2238-13