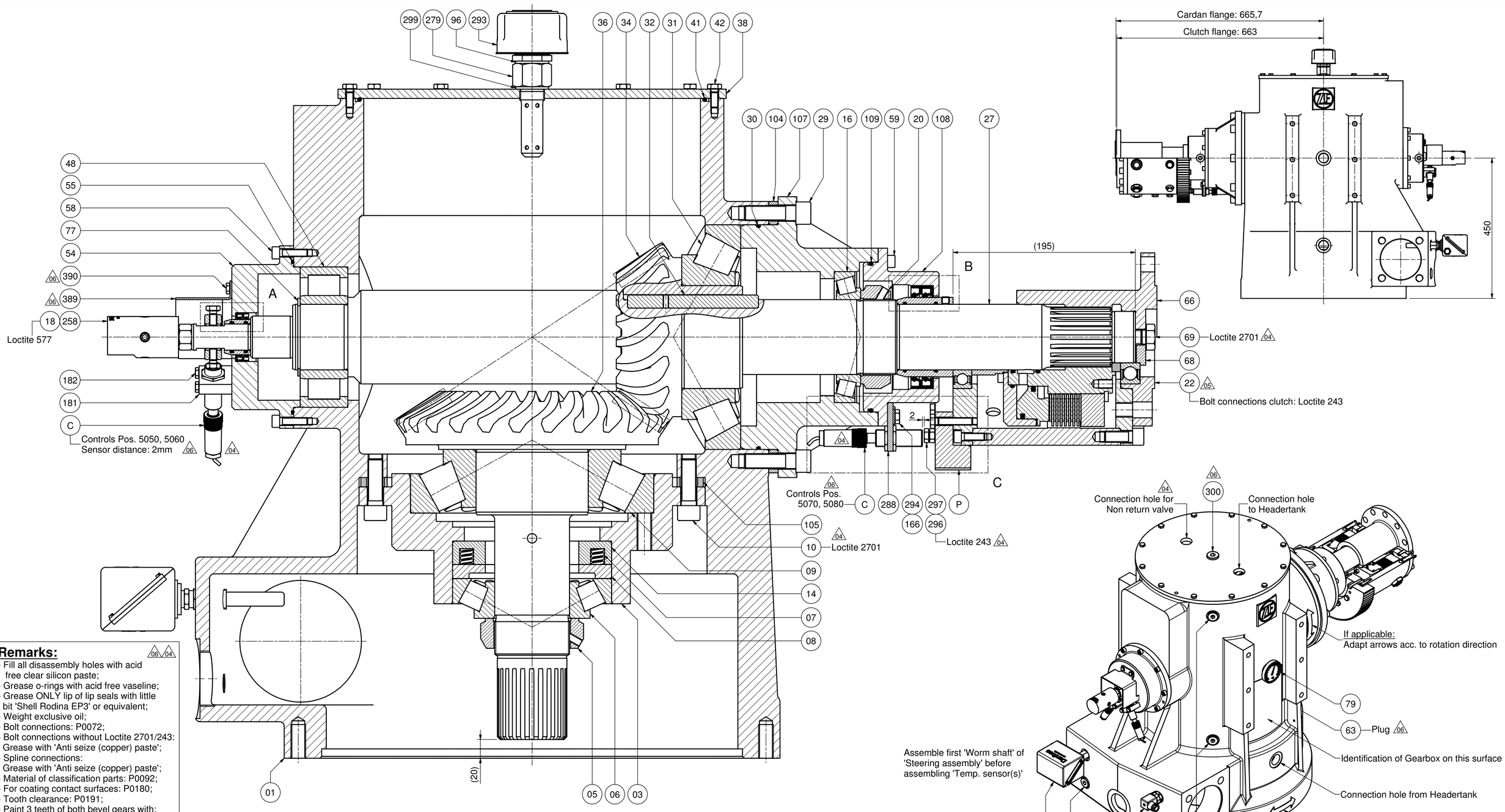
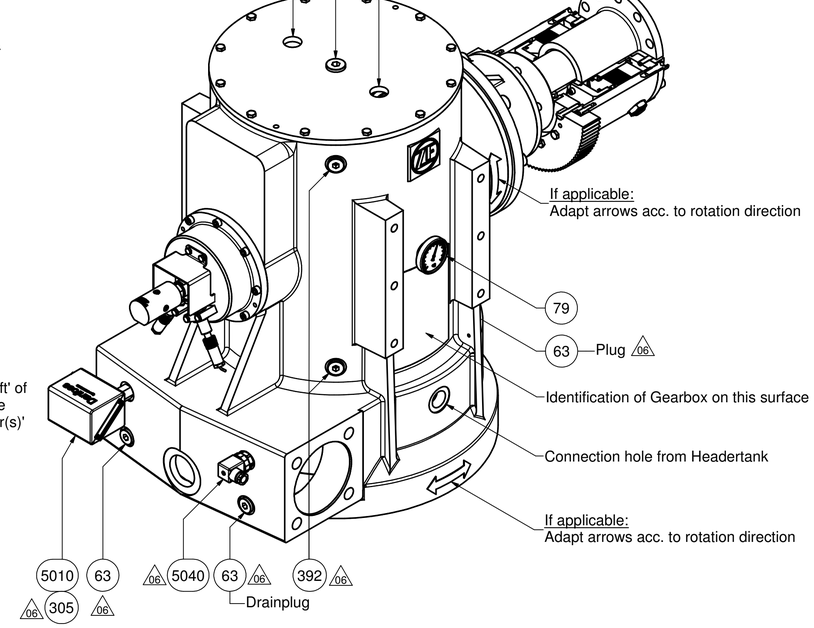




Remarks:

06 04

- Fill all disassembly holes with acid free clear silicon paste;
- Grease o-rings with acid free vaseline;
- Grease ONLY lip of lip seals with little bit 'Shell Rodina EP3' or equivalent;
- Weight exclusive oil;
- Bolt connections: P0072;
- Bolt connections without Loctite 2701/243: Grease with 'Anti seize (copper) paste';
- Spline connections: Grease with 'Anti seize (copper) paste';
- Material of classification parts: P0092;
- For coating contact surfaces: P0180;
- Tooth clearance: P0191;
- Paint 3 teeth of both bevel gears with: 'Layout Fluid' (Steel Red, Dykem);
- Locknut inserts: P0179;
- Pos. C - Supply by ZF Controls;
- Pos. P - Hydraulic pumpunit.

Options:

Clutch
- Incl. pos. 22, 68, 166, 258, 288, 294
- With pully: Incl. pos. 296, 297
- Without pully: Incl. pos. 88

Cardan flange
- Incl. pos. 18, 66

Fully filled gearbox
- Incl. pos. 300, 392

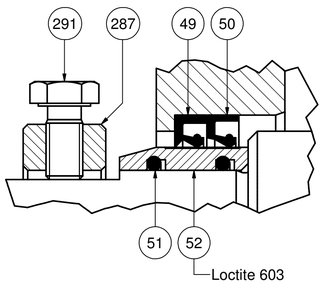
Half filled gearbox
- Incl. pos. 96, 279, 293, 299

Temperature switch
- Incl. pos. 5010
- Excl. pos. 305

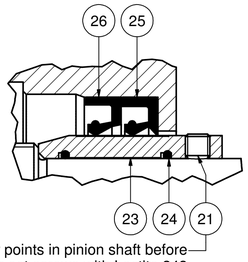
Bearing margins:

- Horizontal shaft: 0.00mm
- Vertical shaft: 0.00mm

Detail: A

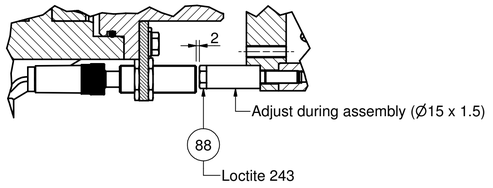


Detail: B



04 Drill center points in pinion shaft before mounting set screws with Loctite 243

Detail: C 04



REV	SUBJECT	DATE
06	R0144- Cover Pos. 389; plugs	300714
05	R0070- New DOC added	061113
04	New drawing; double sensors; Pumphouse deleted	030212
03	Parts added on Options	100309
02	New drawing; Pumpwheel del;	170908
01	Pump add.; Pos. 03 changed	260308

SCALE : 1 : 2
DATE : 13-4-2007
NAME : CGvdK
CHECKED :
MATERIAL :
WEIGHT : ±450 kg

REMARKS:

TITLE :
ZF 4000 Upper gearbox - CW

FORMERLY KNOWN AS HPP THRUSTER SYSTEMS BV
VOOR AFMETINGEN ZONDER OPGEGEVEN TOLERANTIES GELDT: IF NOT SPECIFIED, ALL DIMENSIONS TOLERANCES :
P0070
AFMETINGEN IN MILLIMETERS DIMENSIONS IN MILLIMETERS
SCHERPE KANTEN BREKEN 0.5x45° CHAMFER SHARP EDGES 0.5x45°
OPPERVLAKTE RUWHEID SURFACE ROUGHNESS

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AMERICAN PROJECTION (ISO 128)

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DRAWING No. : 0602z400
Rev. 06
A1
ORDER No. :