OVERVIEW OF COOPER NOMENCLATURE

PART DESCRIPTION: 01 BCP 507 EX ATL C3

SERIES

100.....light duty

01.....medium duty

01E.....enhanced medium duty: bore size 111 to 400 (metric 45M to 105M) and 607 to 1200 (metric 160M to 300M)

02.....heavy duty

02E.....enhanced heavy duty: bore size 607 to 1200 (metric 160M to 300M)

03.....extra heavy duty

04.....high speed

07.....medium duty water-cooled

071.....medium duty water-cooled without top half outer race

08.....heavy duty water-cooled

081.....heavy duty water-cooled without top half outer race

MSP.....obsolete designation, use 01 or 01E

HSP.....obsolete designation, use 02 or 02E

XHP.....obsolete designation, use 03

CONFIGURATION

B.....bearing only

BC.....bearing, cartridge, & seals

BCP.....complete pillow block

BC4P.....complete pillow block with 4-bolt base for sizes where 2-bolt is standard outside US 01 series: 303 to 408 bore 02 series: 211 to 400 bore

BCSAFC...complete pillow block unit with SAFC pedestal

BCPNE.....complete pillow block unit with Type E pedestal

BCSNC.....complete pillow block unit with SNC pedestal

BCPM.....complete pillow block unit with M-line pedestal

BCPS.....complete pillow block unit with steel pedestal

BCF.....complete round flange unit

BCDF.....complete square flange unit

C.....cartridge only

P.....pedestal only

Z.....marine pedestal

BH.....complete hanger unit

BCRES.....complete rod end shoe type

BCRET.....complete rod end tee type

BCTP.....complete takeup push type

BCTT.....complete takeup tension type

BORE SIZE

Inches – last 2 digits represent the number of 1/16"ths

Example: 307 = 3-7/16"
1008 = 10-1/2"
104 = 1-1/4"

Metric – in millimeters (mm), denoted by M

Example: 130M
75M
320M

TYPE

EX.....expansion type

GR.....fixed type

SEAL TYPE

ATL.....aluminum triple labyrinth seals (standard seals up to 12"bore; available with Buna rubber or high temperature "O" rings)

PTL.....plastic (HDPE) triple labyrinth seals

HTP.....high temperature packing seals

SRS.....split rubber seals

FELT.....felt seals

LAB.....grease groove seals (also nown as GG)

SRSRP..split rubber seal with retaining plate

SPECIAL FEATURES

C2 (or 02).....less than standard clearance

C3 (or 03).....greater than standard clearance

C5 (or 05).....greater than C3 clearance

GM.....gunmetal roller cage

S1.....S1 swivel fit

TE.....drilled & tapped for RTD

RO.....drilled & tapped for recirculating oil

OM.....drilled & tapped for oil mist

CLO.....drilled & tapped for constant level oiler

NP.....nickel plated

FR.....full complement of rollers

EL.....electrical specification

SLUB.....spherical lubrication

PBR.....pedestal base reduction

GP.....grease ports

BPTL.....blanking plate

BEM.....base ends machined

When a bearing reaches the end of its working life, it doesn't have to be discarded without providing further value. Three options for dealing with end-of-life bearings are outlined below.

RECONDITIONING

Cooper offers a reconditioning service for larger bearings. A used bearing is thoroughly cleaned and a detailed report prepared on its condition and the required work required to bring it back to an as-new functional condition. Generally a reconditioned bearing will consist of a combination of remachined components of the original bearing and new components to give the correct clearances.

Reconditioning is generally more economical than manufacture of new bearings, depending upon the amount of work required to the subject bearing, for the following bearings:

01 Series: 13"/320mm bore size and over

02 Series: 13"/320mm bore size and over

03 Series: 61/2"/160mm bore size and over

04 Series: all sizes

Thrust bearings: all sizes

Cooper is also able to recondition radial and thrust cylindrical bearings of non-Cooper manufacture.

FAILURE ANALYSIS

Cooper offers a failure analysis service for all sizes of bearing, of any age. Where appropriate, we will offer advice on fitting practices, lubrication regime, or modifications to the mounting arrangements to help improve future bearing life.

Bearings sent for analysis may be reconditioned, recycled or returned as appropriate.

Please inform Cooper if you wish to use this service, before returning bearings to one of our sites. A small charge may be made depending on requirements.

RECYCLING

The materials used in a Cooper bearing unit are almost completely recyclable. The diagram below helps to identify the various materials used in standard and popular optional versions of Cooper bearings so that they can be segregated as required.