

5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.

6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.

7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER.

8. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.

9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE

10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.

11. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER

12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM

13. WASHERS AND/OR SPRINGWASHERS SHALL BE USED WHERE DEEMED NECESSARY

XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS

PFAA= PRESS FIT AFTER ASSEMBLY

PCD = PITCH CIRCLE DIAMETER

RM = REAM

HEX = HEXACON, 6SIDED

CP = COMPRESSED

KNL = KNURLED

CSK = COUNTERSINK

PL = PLACES

DWL= DOWEL SPF= SPOTFACE

(T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD (T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE

OD = OUTSIDE DIAMETER ID = INSIDE DIAMETER

SA-xxx = SUB ASSEMBLY-xxx

BRS = BRASS

BRZ = BRONZE OR GUNMETAL (BRZ/GM)

CI = CAST IRON CU = COPPER

GRA = GRAPHITE

MS = MILD STEEL/BRIGHT MILD STEEL SS = SILVER STEEL OR STAINLESS STEEL

SPS = SPRING STEEL

PEEK= POLYETHER ETHER KETONE SYN = SYNTHETIC MATERIAL SUCH AS VETON,

NYLON, TEFLON OR RUBBER

IN GENERAL SYNTHETIC MATERIALS SOULD BE ABLE TO WITHSTAND THE HEAT AND PRESSURE(S) APPLIED TO THEM

nnn/nnn MEANS THAT EITHER MATERIAL CAN BE

NOTES: THE ORIGINAL DRAWINGS WERE GIVEN TO ME. THE ORIGNAL DESIGN/BUILD WAS BY J.P.DUVAL OF "MINIATURES MECANIQUES MODELS". DRAWING No: MV o 10x20 02 00, DATED OCTOBER 2004. THE ENGINE SHOWN ON THESE DRAWINGS IS 2x THE ORIGINAL

STURDY 2 CYLINDER BOXER TYPE OSCILLATING STEAM ENGINE (B=20 S=40) GENERAL ARRANGEMENT, ISOMETRIC VIEW, NOTES, BILL OF MATERIALS

PROJECT No 09A-28-00

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MODEL SCALE: 1:1
DWG SCALE: 1:1 @A3 OR AS SHOWN Copyright S J.A.M. DE WAAL PAPAKURA NZ

SHEET: 01 OF 02 A3 No: 09A-28-00-SHT01

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