MANUFACTURER'S SYMBOL & PART NO, ED5451 & HEAT CODE NO.

NOTE:-

)1) MATERIAL:- 25MoCr4E BTS: 0053

>2) HEAT TREATMENT :- ISOTHERMAL ANNEALING.

3) HARDNESS: - 152 - 190 BHN.

4) REDUCTION RATIO: 6 MIN.

5) JOMINY VALUE:-

HARDENABILITY (DISTANCE IN mm)	1.5	3	5	7	11	15	20	25	30
MIN HRC	44	42	41	40	36	33	30	28	27
MAX HRC	49	49	48	47	44	41	39	37	36

6) GRAIN SIZE:- 5~8 ASTM E 112: PI IV

7) INCLUSION RATING: - IS 4163. ASTM E45A

INCLUSION RATING	Α			В	(		D	
	Т	Н	T	Н	T	Н	T	Н
MAX.	2.0	1.0	2.0	1.0	2.0	1.0	2.0	1.0

8) MICROSTRUCTURE: - UNIFORMLY DISTRIBUTED EQIAXED GRAINS OF FERRITE & PEARLITE WITHOUT BANDING & INTERMEDIATE PHASE.

9) UNSPECIFIED DIMENSIONS. :-

CORNER RADII : 2R + 50%, -25% FILLET RADII: 6R, +50%, -25% DRAFT ANGLE : AS SHOWN, TOL. ON THICKNESS = +1.3, -0.7

TOL. ON LENGTH, WIDTH & DIA.: +1.9, -0.9

MISMATCH = 1 MAX. STRAIGHTNESS = 0.9

- 10) FORGING SHOULD BE SUPPLIED AS PER BT / LAB / MAT / STD.001
- 11) RAW MATERIAL TO BE PROCURED FROM APPROVED STEEL SOURCES & SHOULD BE OF INGOT ROUTE ONLY.
- 12) SUPPLY & DELIVERY CONDITION AS PER DBL: 4531.00
- 13) DIA. 218 SHOULD BE TRIMMED & SHOULD BE FLASH FREE.
- 12) FLASH ON LOCATIONS POINTS MARKED BY 1 SHOULD BE THOROUGHLY GROUND.
- 14) FORGING TOL. AS PER EUROFORGE DIN: 7526
- 15) FORGING TO BE SHOT BLASTED.
- 16) FORGING SHOULD FREE FROM DEFECTS SUCH AS CRACKS, SCALES PITS Etc.
- 17) ALL DIMENSIONS ARE AT CROSSING POINT.

WITH 5mm HT. & 0.5mm
RAISED LETTERS.

Ø139.6

R18

Ø123.6

Ø123.6

Ø190

Ø218

## COMPOSITION (25MoCr4E)

AS PER STD. BTS 0053

CRITICAL CHARACTARISTIC

CUSTOMER

CAD DRG. (FILE) NAME

%	С	Mn	Si	Р	S	Cr	Мо	Al	Ca
MIN.	0.19	0.70	0.15	0.00	0.020	0.65	0.40	0.020	15 PPM
MAX.	0.23	1.00	0.40	0.035	0.035	1.00	0.50	0.050	25 PPM

						ALL DIMENSI	ONS ARE IN MILIMETER	RS
						DO NOT SCALE, IF IN DOUBT,PL, ASK		
						MACHINE		
						MATERIAL	SEE NOTE	
REVISIONS			CHKD	APRD	DATE	SCALE	HARDNESS	
FORGING DRG		NAME		SIGN	DATE	N. T.S. SEE		TE
(CROWN WHEEL 4.375 & 4.111 RATIOS)		MW		18.08.15 NT. WT.		NT. WT.	PROJECTION	
		SDP				6.2		1
COMP - ED 5441 ( 08 686 353 00 12 )	APRD	B.LEVA				Kg.	🎔 🗅	7
VE COMMERCIAL VEHICLES LIMITED.				SHT. SL.NO.		3-11453		REV.
(A UNIT OF EICHER MOTORS LTD.) DEWAS (M.P.)					DRG. N		- A E A   I	00
DESIGN & DEVELOPMENT DEPTT.				01	1	ED:	5451 /F	١ ٽ

SIZE : A3. (297 × 420 mm)