

\/F 00:	ANAEDO: A	\ \/E!!!Q! 5	-0 : 11.	ITED		T				וחח	EV. OPN.	NEVT	ODN	HARRIEI	_		KOJE
VE COMMERCIAL VEHICLES LIMITED. (UNIT: EICHER ENGINEERING COMPONENTS; DEWAS)						CONTROL PLAN				AF INOREGION AND TEETH OHAMEEDING			APO4 :	160 : 2	20		
CONTROL PLAN NO: 3254 / 080						KEY CONTACT PERSON :- SSK				CORE TEAM :- ALM, SK, SRS, SNP, IDS, MM, RK					REV- 01 (DATE- 05.10.1		
EFF DATE	27.10.17	EFF DATE		EFF DATE		LOCATION	→	REST		CLAMP -	- N →	SPL.CHAR. (CRITICAL DIMN.)	B EEC	D 🔷	CUSTOMER	A	В
PROTOTYPE	<u></u>	PRELAUNCH		PRODN								(OTTITIONE DIMINE.)					П
O.E.		<u>'</u>	EXPOR	т	<u></u>	1	LOA	DING P	ATTERN								
PART NO.	ED 325	4 (243 - 174	4 / REV	03)			(TR	AY LOAI	DING) (I	MAX. 12 PA	ARTS LO	AD ONLY)	Â1				
PART NAME GEAR - OUTPUT OPN. NO. 080													7111				
CUSTOMER	07 11 21 11																
OPERATION * HEAT - TREATMENT						-	/ _		_	_/							
CELL [OPTIONAL] M./C. M./C NO. COE 3.8 6 (OPTIONAL)					_, ,	\neg		\mathbb{T}									
		S.Q.F	3 & 6	(OPTION	IAL)		_	\		_		\/					
FIXTURE.		FIX. N	10. T(OOL	NO.			_, ,	—,		$\neg, \rceil \mid [$						
							FR	ONT VII	EW	<u>S</u>	IDE VIE	W					
SR.	CHARACTERISTICS SPL PRODUCT / PROCESS			EVALUATION MEASUREMENT TECHNIQUE SAN			MPLING			000050711	ORRECTIVE ACTION/						
NO. PRODUC	CT PROCESS		CHAR CLASS	SPECIFICATIONS		INSTRUMEN		NO.	SIZE	FREQ CONTROL I		OL METHOD	METHOD REACTION PLA				
			02/100		15.11.			-			1					-	
10.	TEMPER DEL	AY			JR MAX.											. │	
11.	CHARGE NO.	MARKING		REFER MARKING W.I. NO. APO3: 460: 02 FOR SQF.													
				REFER H. T. W.I. NO. <u>AP03 : 460 : 05</u> , STANDARD CYCLE SHEET No. AP03 : 460 : 44 ,									1				
2.	CARBURISIN						EET No. APO4: 460: 02										
3.	TEMPERING /	PRE HEATING	REFER H. T. W.I. No. APO3: 460: 16, STANDARD CYCLE SHEET No. APO3: 460: 44														
																1	
4.	SHOT BLAST	ING	REFER H. T. W.I. No. <u>APO3: 460: 06</u>														
5	WASHING GENERAL PROCEDURE, REFER H.T. W.I. No. APO3: 460: 04									1							
5.	WASHING					CIVIL , INLITED	11.1. VV			<u> </u>							
										т							Ш
DRN BY AM		AMARDEEP			\ 	KD BY		2. PATHAK			APRD BY	B. LI	=VA				AGE
ום וואם		7 WW II WELLI			I Cn	ום טח	'				AFRUDI	5. 2	- */ 1			02	2/02

VE	Commercial	Vehicles Ltd.	SOF	NDAR	Doc No	AP03:460:44					
Unit : Eicher Engineering			S.Q.F 3 STANDARD CYCLE					Rev. No.	0 (03.01.2012)		
Components, Dewas			SHEET FOR CAT					Rev. Date	01	.10.2017	
S.N.	Process	Parameter	Set Value	Process Tolerance		S.N.	Parameters		Set Value	Process Tolerance	
1	Endo Flow ((NM3/HR)	10	± 2		7	Prewashing Temp		70°C	± 10	
2	LPG Flow (LPH)		400	± 200		8	Prewash	ing Time	30 Min	± 10	
3	3 Endo Generator Temp.		1020°C	± 5		9	Preheating Temp		400°C	± 20	
4	Endo Gene	Endo Generator Dew poin		± 2		10	Preheating Time		90 min	± 30	
5	Tempering '	Temperature	170°C	± 10°C		11		ig Time	30 min	± 10	
	Carbon	Carburising	1.10	± 0.10		12		ing Time	30 mins	± 10	
6	Potential	Diffusion 1	0.90	± 0.10 ± 0.10	-	13	Tempering Time		90 mins	± 30	
Ů	(Cp)	Diffusion 2	1.10			14		al Temp	75 -110°C	 maximum	
		Soaking	0.90	± 0.10			Tempering	Dealy Time	2 Hr		
	ITEM	EECD PART	Material	Carb+Diff		Quench	Carb	Diff Time	Agitation		
S.N.	CODE	NO.	Grade	Temp.	Temp	Oil Temp	Time	(± 10 Mins)	(± 200 RPM)	Remarks	
				(± 10°C)	(± 10°C)	(± 2°C)	(±20 mins)	,	,		
1	2087635	3204	1E1120A	930	840	43	115	55+20	1000		
2	2802139	3205	1E1120A	930	840	43	210	55+20	1000		
3	2S7832	3206	1E1120A	930	840	43	210	55+20	1000		
4	3P2983	3207	1E1120A	930	840	43	230	55+20	1000		
5	3P3059	3208	1E1120A	930	850	43	230	100+30	1000		
6	3P8014	3209	1E1120A	930	840	43	210	55+20	1000		
7	3T3072	3211	1E1120A	930	850	43	230	55+30	1000		
8	3T3077	3212	1E1120A	930	840	43	230	55+30	1000		
9	5S7065	3213	1E1120A	930	840	43	100	55+20	1000		
10	7G1137	3214	1E1120A	930	840	43	230	55+30	1000		
11	9G327	3216	1E1120A	930	840	45	115	55+20	1000		
12	9P3709	3218	1E1120A	930	840	43	115	55+20	1000		
13	419-0183	3229	20MnCr5	930	840	43	250	55+20	1000		
	246-8757	3229		+			210	55+20			
14		-	1E1120A	930	840	43	210	55+20	1000		
15	8E1682	3224	1E1120A	930	840	43			1000		
16	4665108	3226	20MnCr5	930	850	42	120	55+30	1000		
17	4665109	3227	20MnCr5	930	850	42	120	55+30	1000		
18 19	2G7244 9G9621	3228 3267	1E1120A 1E1120A	930	850 850	43 42	270	140+30	1000 1000		
20	1110329	3267	1E1120A	930 930	850 850	42	180 180	55+20 55+20	1000		
21	8P7245	3215	1E1120A	930	000	74	100	JUTZU	1000		
22	9G1918	3217	1E1120A	930	850	43	220	60+20	1000		
23	9S8839	3219	1E1120A	930	850	43	115	55+20	1000		
24	8E1894	3221	1E1120A	930	850	43	220	60+30	1000		
25	3233933	3223	1E1120A	930	850	43	130	55+20	1000		
26	1317419	3252	1E1120A	930	850	43	160	55+30	1000		
27	1941021	3253	1E1120A	930	850	42	180	55+20	1000		
28	2431744	3254	1E1120A	930	850 850	42	210	55+20 55+20	1000		
29 30	2531337 3412037	3255 3257	1E1120A 1E1120A	930	850 850	43 42	115	55+20 55+20	1000		
31	3859268	3257	1E1120A	930 930	850 850	42	210 210	55+20 55+20	1000 1000		
32	7T-1662	3262	1E1120A	930	850	43	140	60+20	1000		
33	3P8163	3210	1E1120A	930	850	43	260	130+30	1000		
	389-3085	3263	1E1120A	930	850	43	130	60+20	1000		