(ZE														Format No:- AP04:460:10Z						
	MATERIAL LABORATORY REPORT																				
Repor	t No :	HOES	210040	770			IVIA	A I EKI	AL LA	BORA	IORY	KEPC)K I								
_					20207	2	Part	ТСПУ	СТ		: 2018-04-28										
	rt No/Part ID: 825 / 1325302072													Date: Batch Code:			E2D18390				
Qty															Steel Code:						
1) Raw Material : 20MnCr5 Heat No: 1.1 Chemistry											K115918				Code		USO	U566			
		_							<u></u>	Mn	<u> </u>	<u> </u>	lo:	ls ii	10	l	h.,	14.	15	10	
Elements (%) → C											S	Р	Si	Ni	Cr	Мо	V	Al	В	Cu	
Min 0.17										1.10				_	1.00	-	-	-	-	-	
Max 0.2										_	0.035			-	1.30	-	-	-	-	-	
Obser									0.19	1.18	0.026	0.019	0.19	-	1.06	-	-	-	<u>-</u>	-	
2) Hea	at Tre	atmer	nt: Cas	e cart	ourise	d, hard	lened a	& temp	ered												
			HAR	DNESS	TRAV	ERSE G	RAPH					2.1 H	ardnes	SS							
800	800											Location			Specification			Observation			
750	730											GEAR FACE AND SPLINE OD			59-63 HRC			60			
												At machine area on OD			59 min HRC			59			
= 700 S 8	2 700 E 850											Core AT RCD			295 HBW Min.			311			
E 650	E 650										00	2.2 Ft	ffective	e Cas	HBW e Depth @ 610HV1						
											Location			Specification				Observation			
800	800												200411011			(mm)			(mm)		
												PCD			0.60-1.0			0.96			
530	0.1 0.2 0.2 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.6 1.4 1.5 1.5 1.7 1.8 1.9 2.0														1			-			
					listance Ir	MM						AT Machine area			0.55 MIN,			0.75			
2.3 Ha	ardne	ss trav	ese re	eport																	
Dista	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
nce																					
from																					
surfa																					
ce in																					
mm			700					004	0.40	=00											
-	765	751	738	-	-	+	+-	661	640	580				_	-	-	₩	-	+	+	
RCD			1	1	-	-	1		ļ	1	ļ			<u> </u>	-	ļ	1	-		-	
B/G OD	740	700	680				642	580													
2.4 Mi	crostı	ructure	э:																		
Location Specification														Observation							
CASE Tempered Marter										nsite with 5 - 30 % RA				T.M+R.A.5-10%							
Carbides Network Nil																					
										ensite + Bainite with 5% L.C.					.M+Bainite						
IGO- RCD <20										17					 7						
1.5																					
Dispos	sition:	- ACC	FPTF	D			1														
Rema			,_, ,L																		
			lai n	aravor			\/orifi	ad by		Raivardhan gautam					Approved by: Payindra kala						
Checked by :- Jai narayan V								Verified by : - Rajvardhan gautam A							Approved by :- Ravindra kale						