



CUSTOMER	: DHAR AUTOMOTIVE (P) LTD. INDORE.	INVOICE NO	:	QA/RM/F10
SPECIFICATION	:	TRUCK NO	:	SAMPLE TC
REV No / REF NO	:	DATE	:	30/01/2018
HEAT NO	: M806031	NO OF PCS / ENDL	:	
GRADE	: EN353	QUANTITY (MT)	:	
SECTION(MM)	: 75 RCS	COLOUR CODE	:	RED+YELLOW
REDUCTION RATIO	: 11.1	SUPPLY CONDITION	:	AS ROLLED
INPUT SIZE (MM)	: 250 X 250	MULTIPLE LENGTH	:	5-6 MTR
PROCESS ROUTE	: BF/EDF/LRF/VD/CCM/SEN/M'EMS/AMLC			

1. CHEMICAL COMPOSITION % (Ladle/Product)

	%C	%Mn	%P	%S	%Si	%Cr	%Ni	%Mo	%Pb	%Cu	%Sn	%V	%Ti	%B	%Al	%Ca
CUST. MIN	--	0.500	--	--	--	0.750	1.000	0.080	--	--	--	--	--	--	0.020	--
SPEC. MAX	0.200	1.000	0.050	0.050	0.350	1.250	1.500	0.150	--	--	--	--	--	--	0.040	--
ACTUAL	0.170	0.800	0.015	0.024	0.230	0.830	1.000	0.100	--	0.010	0.007	0.006	0.0030	0.0003	0.034	0.0022

2. MECHANICAL PROPERTIES

	SPECIFIED	ACTUAL
YS	--	--
UTS	--	--
ELONGATIONS(5.65S ₀ .rt.A) %	--	--
REDUCTION AREA %	--	--
IMPACT VALUE	--	--
HARDNESS(BHN/HRB/HRC)	--	180/200 BHN

SAMPLE TC

3. METALLURGICAL PROPERTIES

MICRO STRUCTURE	: P+F	PEARLITE+FERRITE
GRAIN SIZE(ASM E112/IS:4748)	: 5/8	6.5/7.5
TOTAL DECARB (MM) SAEJ419	: --	--
INCL RATINGS(ASM E-45/IS:4163)		

SPECIFIC REQUIREMENT

	THIN	THICK	THIN	THICK	THIN	THICK	THIN	THICK
A-2.0/-			B-2.0/-		C-2.0/-		D-2.0/-	
ACTUAL	1.5	0.0	0.5	0.0	0.0	0.0	1.5	0.0

MACRO ETCH TEST (ASTM E - 381)	: C2R2S2 MAX.	BETTER THAN C2R2S2
4. D. I. VALUE (J406)	: --	
JOMINY REQUIREMENT	: 4/16=34/38	
HARDENABILITY IS:3848/A255-02		

DIST-INCH/MM:	:	4/16"	:	:	:	:	:	:	:	:	:	:	:	:	:	:
VALUES(HRC):	:	35.00	:	:	:	:	:	:	:	:	:	:	:	:	:	:

5. GAS LEVEL (PPM) SPECIFIED MAX	:	O2: 20.0	N2: 70-100	H2: 2.0
GAS LEVEL (PPM) ACHIEVED	:	O2: 15.9	N2: 74.0	H2: 1.6

6. REMARKS	:	100% SPARK/SPECTRAL/MOBILE SPECTRO TEST :OK
	:	STEP DOWN TEST :OK
	:	UPSET TEST :NA
	:	100% MPI & UT TEST OK

[Signature]
AUTHORISED SIGNATORY