



CUSTOMER	: DHAR AUTOMOTIVES PVT.LTD. PITHAMPUR, DIST-DHAR	INVOICE NO	:	QA/RM/F10
SPECIFICATION	:	TRUCK NO	:	
REV No / REF NO	:	DATE	:	11/02/2018
HEAT NO	: M806406	NO OF PCS / BNDL	:	SAMPLE TC
GRADE	: EN353	QUANTITY (MT)	:	
SECTION(MM)	: 100RCS	COLOUR CODE	:	RED+YELLOW
REDUCTION RATIO	: 6.3	SUPPLY CONDITION	:	AS ROLLED
INPUT SIZE (MM)	: 250 X 250	MULTIPLE LENGTH	:	5-6MTR
PROCESS ROUTE	: BF/EOF/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	0.190	0.940	0.014	0.026	0.200	1.160	1.060	0.130	—	0.011	0.005	0.006	0.0020	0.0004	0.025	0.0016

## 2. MECHANICAL PROPERTIES

## SPECIFIED

## ACTUAL

YS	:	—	—
UTS	:	—	—
ELONGATIONS(5.65S <sub>q</sub> .rt.A) %	:	—	—
REDUCTION AREA %	:	—	—
IMPACT VALUE	:	—	—
HARDNESS(BHN/HRB/HRC)	:	—	190/210BHN

**SAMPLE TC**

## 3. METALLURGICAL PROPERTIES

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

## SPECIFIC REQUIREMENT

## ACTUAL

	THIN	THICK	THIN	THICK	THIN	THICK	THIN	THICK
A-2.0/-			B-2.0/-		C-2.0/-		D-2.0/-	
ACTUAL	2.0	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	:	6/16"=38/42	—
HARDENABILITY IS:3848/A255-02	:	—	—

DIST-INCH/MM:	1/16"	2/16"	3/16"	4/16"	5/16"	6/16"	7/16"	8/16"	9/16"	10/16"
VALUES(HRC):	46.00	45.00	44.00	43.00	42.00	39.50	38.00	37.00	35.50	34.00

5. GAS LEVEL (PPM) SPECIFIED MAX	:	O2: 20.0	N2: 70-100	H2: 2.0
GAS LEVEL (PPM) ACHIEVED	:	O2: 16.2	N2: 84.0	H2: 1.7

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

*[Signature]*  
AUTHORISED SIGNATORY