JAYASWAL NECO INDUSTRIES LIMITED

(STEEL PLANT DIVISION)

SILTARA INDUSTRIAL GROWTH CENTRE, RAIPUR (C.G.)

Ph.: +91-7721-264241/263, Fax No. : +91-7721-264279/264240

TEST CERTIFICATE

No:BM39051

QA/RM/F10

	:FORGE INDIA PVT.LTD. DISTT-SOLAN (HP)		
ATION	:FI/TDC/S-002.ISSUE NO.1	INVOICE NO	: 260957
REF NO	:00.	TRUCK NO	:HP64-2870
	:D 59341	DATE	:24/02/2016
	:20MNCR5	NO OF PCS / BNDL	:150 PS/08 BL.
MM)	:56 DIA	QUANTITY (MT)	: 16.270
N RATIO	:13.2	COLOUR CODE	:RED+BLUE DOT
ZE (MM)	:180 X 180	SUPPLY CONDITION	:AS ROLLED
ROUTE	:BF/EOF/LRF/VD/CCM/SEN/M'EMS/AMLC	MULTIPLE LENGTH	:5-6MTR.

CAL COMPOSITION % (Ladle/Product)

	%C	%Mn	%P	%S	%Si	%Cr	%Ni	%Mo	%Pb	%Cu	%Sn	%V	%Ti	%B	%Al	%Ca
MIN	0.170	1.100	--	--	0.150	1.000	--	--	--	--	--	--	--	--	0.020	--
MAX	0.220	1.400	0.025	0.035	0.400	1.300	--	--	--	--	--	--	--	--	0.040	--
	0.180	1.120	0.024	0.031	0.260	1.020	0.018	0.002	--	0.009	0.007	0.006	0.0030	0.0003	0.034	0.0016

NICAL PROPERTIES		SPECIFIED	ACTUAL
	:	--	
	:	--	
ONS(5.65Sq.rt.A) %	:	--	
N AREA %	:	--	
ALUE	:	--	-
(BHN/HRB/HRC)	:	220BHN MAX.	160/180 BHN
LLURGICAL PROPERTIES			
TRUCTURE	:	P+F	PEARLITE+FERRITE
IZE(ASTM E112/IS:4748)	:	6/8	6.5/7.5
ECARB (MM) SAEJ419	:	1.0%OF DIA	0.30MM PARTIAL

TINGS(ASTM E-45/IS:4163)

	THIN	THICK	THIN	THICK	THIN	THICK	THIN	THICK
SPECIFIC REQUIREMENT	A-2.0/1.5		B-2.0/1.5		C-2.0/1.0		D-2.0/1.0	
ACTUAL	1.5	0.0	0.5	0.0	0.0	0.0	1.5	0.0

TCH TEST (ASTM E - 381)	:	C2R2S2 MAX.	BETTER THAN C2R2S2.
. VALUE (J406)	:	--	
REQUIREMENT	:	J4/16"=33/37 HRC	
BILITY IS:3848/A255-02	:		

NCH/MM			4/16"											
S(HRC)			35.00											

LEVEL(PPM) SPECIFIED MAX	:	O2: 20.0	N2: 70-80	H2: 2.0
LEVEL(PPM) ACHIEVED	:	O2: 15.9	N2: 73.0	H2: 1.5

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