व्यावसायिक परीक्षण रिपोर्ट COMMERCIAL TEST REPORT (Variant) संख्या / No. : T-889/1404/2013 माह / Month : September, 2013



NEW HOLLAND INDIA, NEW HOLLAND 3630 TX TURBO SUPER 12+3 UG TRACTOR



भारत सरकार

GOVERNMENT OF INDIA

कृषि मंत्रालय (कृषि एवं सहकारिता विभाग, मशीनीकरण एवं प्रोद्योगिकी प्रभाग)
Ministry of Agriculture (Deptt. of Agri. & Co-op, Mechanization & Technology Division

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO: 9001-2008 Certified Institute)

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3. ESSENTIAL TESTS

		3.1	SPI	ECIFICATIONS		
3.1.1	Tractor:		Base Model Variant Model			
	Make		:	NEW HOL	I AND INDIA	
	Model		:	New Holland 5500	New Holland 3630 TX	
				TURBO SUPER	TURBO SUPER 12+3	
	V			12+3 UG	UG	
	S.No	ts ,if any:				
		Variant models *		Variant features		
	1.	New Holland 5500 DT		With four wheel drive v	version	
	-	Turbo super 12+3 UG		whice drive v	/ersion	
	2.	New Holland 3630 TX		With TV metal at 1		
		Turbo super 12+3 UG		With TX metal styling		
	Type		٠.	Four wheat t	wheel drive, general	
	Vear	of manufacture	•	Four wheeled, rear	wheel drive, s	
	Chan	oi manufacture	:	purpose, agricultural t 2011 (L1)	ractor.	
	Court	sis serial number		2190367	2011 (L1)	
		try of origin		India	2190367	
3.1.2	Engir	ne:		iilula	India	
	Make Model			hear	ALC: 100	
	Type			lveco	Iveco	
	· ypc			8035.25.720	8035.25.720 cooled,	
	Serial number		: 8035.25.720 8035.25.720 Four stroke, turbocharged, liquid direct injection, diesel engine.			
	Country of origin		:	080845DT	engine.	
	Engine speed (row)		:	Italy	080845DT	
	- Maximum speed (rpm), (Manufa		cture	er's room	Italy	
	Engine speed (rpm), (Manufa - Maximum speed at no load - Low idle speed			2450 4 mended pro	oduction setting"	
	- Speed at maximum			100 10 70111	2450 to 2000	
				600 to 700	600 to 700	
	- 1.01	PIULISA		1200 to 1600	1200 to 1600	
3.1.3	- For	drawbar use		2300	1 0000	
3.1.3	Cylinder & Cylinder Head:		-	2300	2300	
					2300	
	Disposition Bore/streke		i i	Three	Thron	
	Bore/stroke, (mm)			· Vertical Inline	Three Vertical, Inline	
	Capacity as specified by the applicant, (cc)			104/115	104 / 115	
	Compression real			2931	2931	
	VDE Of Cylinday				2501	
	Type of cylinder liners			18:1±0.5	18:1±0.5	
				· Wono block	Mono block	
	Arrangement of valves			Uly, replaceable	D - ronlace	
					Shane	
	- Fv	et valve, (mm)		: Overhead	Overhead	
3.1.4		nausi valva /		0.30/0.30		
THE SEC				: 0.30/0.30	0.30/0.30	
	. 30	e of fuel feed system		30/0.30	0.30/0.30	
				· 1000		

: Gravity and force feed CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE - BUDNI Page 7 of 27

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3.1.4.1	Fuel tank: Capacity, (I)	:	Base Model 62.70	Variant Model	
	Location			62.70	
	Provision for draining of sediments/ water	:	Above clutch housing Not provided	Not provided	
	Material of fuel tank	:	HDPE (apa)	HDPE (apa)	
3.1.4.2	Water separator: Make	:			
	Туре	:	A 11-1-1-1-1	ity congretion	
	Location	:	Inverted funnel, gravity separation. On RHS of engine in between fuel tank feed pump.		
3.1.4.3	Fuel feed pump:				
	Make	:	Iveco	Iveco	
	Туре	:	Diaphragm	Diaphragm	
	Model/Group combination No.	:	Not available	Not available	
	Provision of sediment bowl	:	None	None	
	Method of drive	:	Through timing gears		
3.1.4.4	Fuel filters:				
	Make	:	New Holland (apa)	New Holland (apa)	
	Model/Group combination No.	:	479 5600 EC 77 3150	479 5600 EC 7 3150	
	Number	:	Two	Two	
	Type of elements:	:			
	-Primary	:	Paper	Paper	
	-Secondary	:	Paper	Paper	
	Capacity of final stage filter, (I)	:	0.50	0.50	
3.1.4.5	Fuel Injection pump:				
	Make	:	Bosch, India	Bosch, India	
	Model/Group combination No.		0460 423 063	0460 423 063	
	Type	:	Rotary	Rotary 08825	
	Serial number	:	08825	00020	
	Method of drive	:	Through timing gears		
3.1.4.6	Fuel injectors:			D	
	Make	:	Bosch, India	Bosch, India	
	Holder Number	:	F002 C70 567 108 DSLA 142P 5565	F002 C70 567 108	
	Nozzle Number		Multi hole (six	DSLA 142P 5565	
	Туре		holes)	Multi hole (six holes)	
	Manufacturer's production		25.5		
	pressure setting, (MPa)		20.0		
	Injection timing	:	0.35 ± 0.1 mm plunger lift at TDC	0.35 ± 0.1 mm plunger lift at TDC	
	Firing order		1-2-3	1-2-3	
3.1.4.7		*	4 75 25	. 2 0	
5.1.4.7	Governor: Make		Bosch, India		
	[전기 전기 전기 전문으로 보고	:	In built with fuel inject	ion nume	
	Model/Group combination No. Type	:	Mechanical, centrifug	al variable cased	
	Governed range of engine speed, (rpm)	:	Mechanical, centrifugal variable speed 600 to 2600		

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7. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

On the basis of test conducted the performance results have been summarized as 7.1 evaluative (mandatory) and non - evaluative (not mandatory) parameters applicable for qualifying Minimum Performance Criteria as per clause-4 table-1 of Indian Standard 12207: 2008 for acceptance of tractor for the purpose of subsidies/NABARD financing for the applicable features f

SI. No.	Characteristic		Category (Evaluative / Non Evaluative)	Requirem ents as per IS: 12207- 2008	Values declared by the applicant/ Requireme-nt	As observed	Wheth er Variant model meets the require - ments (Yes/
					Base model	Variant model	
1		2	3	4	5		No.)
7.1.1	Lat	pelling of tracto	ors (Provision	of labelling r	late):	6	7
	1)	Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO HP	New Holland India	New Holland	Yes
	2)	Model	Evaluative		New Holland 5500 TX TURBO SUPER 12+3	India New Holland 3630 TX TURBO SUPER 12+3	Yes
	3)	Year of manufacture	Evaluative		UG	UG	
	4)	Engine number	Evaluative		L110	L110	Yes
	5)	Chassis	Evaluative		080845DT	080845DT	Yes
	6)	number Declaration	Evaluative		2190367	2190367	Yes
		of PTO power, kW (Ps)			37.3(50.7)	37.3(50.7)	Yes

7.2 Salient Observations:

7.2.1.2 Three point linkage:

7.4

- i) The width of ball of upper & lower hitch points conforms to category-I whereas the diameter of hitch pin holes conforms to category-I whereast that both should be provided to category-II. Therefore, it is recommended that, both should be provided as per category-II. I nererore, it
- The distance from end of Power take-off to centre of lower hitch point (lower link in horizontal position) does not meets the requirement of IS: 4468 (Part-1)-1997. This should be looked into for necessary corrective action.

7.2.1.3 Specifications of Power Take Off Shaft:

The dimensions 'dø' of the Power take-off shaft does not meet the requirement of IS: 4931-1995. This should be looked into for necessary corrective action.

- 7.3
 - No noticeable maintenance or service problem was observed during the test.
 - The following requirements, inter alia, may be considered for incorporation on the

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Power take-off shield for the PTO shaft may be provided.

Provision for spark arresting device in exhaust system.

The working clearance between main gear shifting lever (when engaged in reverse gear) & the mudguard is not provided as per the above indian standard: 12239 (Part-2) - 1999.

Adequacy of Literature supplied with machine:

The following literature has been supplied for the tractor.

- Operator manual for 7500, 6500 & 5500 turbo super model tractors.
- Service manual for 7500,6500 & 5500 turbo super model tractors
- Service Part's catalogue for 7500,6500 & 5500 turbo super model tractors
- Service Part's catalogue Trem 3A Supplementary for 7500,6500 & 5500 turbo iv) super model tractors
- Information on variant models &their features at a glance shall also be included 7.5.1
- The literature supplied was found adequate. However the literature should be developed in national as well as regional languages also. 7.5.2

The results of the tests carried out on variant model "New Holland India , New Holland 3630 TX Turbo Super 12+3 UG" have been compared with those on base model "New Holland India , New Holland 5500 Turbo Super 12+3 UG " and found within the limit, as specified in Indian Standard:12207-2008.

8. CITIZEN CHARTER

Time traffic for results	Duration of Test	Whether the Test Report is released within the time frame given in Citizen Charter	Remarks
& Evaluation as per Citizen Charter	1 Months	Yes	None
10 Months	(August, 2013)		

TESTING AUTHORITY:

prverang

P.K.VERMA SENIOR AGRICULTURAL ENGINEER

C.R LOHI DIRECTOR

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Test Report compiled by: Shri. Chanchlesh Singh Raghuwanshi, Senior Technical Assistant.

9. Applicant's Comments

	9. 744	Applicant's comments
	3.1.15.1,7.2.1.3,3.1.13.2.1b	Your valuable comments & suggestions for improvements are well taken. Under our policy of continuous product improvement these aspects are further being looked into & will take appropriate
9.0	7.2.1.2.1,5.1.16 ii,3.1.21.4,7.4,3.1.21.5,7.4, 7.5.1 & 7.5.2	actions to eliminate these deviations soon wherever necessary.

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