प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1764/2295/2023

INITIAL COMMERCIAL TEST REPORT माह/Month : August, 2023

Application Reference No. 28/2022-23/102

(यह परीक्षण रिपोर्ट तक वैध है 31/08/2028 / THIS TEST REPORT IS VALID UPTO 31/08/2028



Make of Agricultural Tractor : New Holland Model : 3037 TX A1

Manufactured by : CNH Industrial (India) Pvt. Ltd.

Plot No.-3, Udyog Kendra, Greater Noida-201306 Distt. Gautam budh nagar, Uttar Pradesh, India.



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय (कृषि एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(DEPARTMENT OF AGRICULTURE & FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445

(An ISO 9001:2015 Certified Institute)

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide an OM No. 13-17/2021-M&T (I&P) dated 28.07.2022, that since 15th August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report: -

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

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NEW HOLLAND, 3037 TX A1 TRACTOR – INITIAL COMMERCIAL TEST

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[C] Tractor manufacturer's name and : CNH Industrial (India) Pvt. Ltd.

address

Plot No.-3, Udyog Kendra, Greater Noida-201306, Distt. Gautam budh nagar,

Uttar Pradesh, India.

[C] Submitted for test by (Applicant) : The Manufacturer

[C] Selected for test by : The Ministry vide OM No. 13-17/2021 - M&T

(I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test

sample to the Institute for test.

[D] Place of running-in : At manufacturer's works

[D] Duration of running-in (h):

-Engine : 50 -Transmission : 50

[C] Location of test : Government of India,

Central Farm Machinery Training and Testing

Institute, P.O. - Tractor Nagar, BUDNI – 466445 (M.P.), INDIA

1. SPECIFICATIONS OF TRACTOR

1.1 Identification:

1.1.1 Denomination

[C] Make of tractor : New Holland [C] Model (trade name) : 3037 TX A1

[C] Type : Rear Wheel Drive, Standard Agricultural Tractor.

[C] Month & year of manufacture : 11/22
[D] Country of origin : India

1.1.2 Numbers:

[D] 1st Serial No. of prototype : NHN30370ZNE607617 [C] Serial No. : NHN30370ZNL634206

1.2 Engine:

[D] Manufacturer's address : M/s. Simpsons & Co. Ltd.

[C] Make : M/s. Simpsons & Co. Limited, R & D Centre,

Hosur garden, Sembiam, Chennai-600011

[C] Model : T IIIA \$25/NH.4-F57

[C] Type : Four stroke, naturally aspirated, liquid cooled,

direct injection, diesel engine.

[C] Serial No. : S325N02896

1.2.1 Cylinders:

[C] Number/disposition : Three, vertical, inline

[D] Bore / Stroke, (mm) : 91.4 / 127 [D] Capacity, (cm³) : 2500

[D]Compression ratio: $18.5 (\pm 0.3\%)$: 1[D]Arrangement of valves: Overhead, inline[D]Cylinder liners: Dry, replaceable

[D] Type of combustion chamber : Re-entrant cavity on piston crown

1.2.2 Supercharging : Not available

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for Qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **IS: 12207-2022** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	Ch	aracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirem- ents (Yes/No)
1		2	3	4	5	6	7
	MANDATORY TESTS: (As per N			inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
		d 28 th of July, 2	2022).				
6.1.1		Performance:				1	
a)	unde (kW)	mum power r 2 h test, (Natural ent condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	27.3 (D)	27.0	Yes
b)		er at rated ne speed,	Non Evaluative	-do-	27.3 (D)	26.6	Yes
c)	consi corre maxii (g/kV		Evaluative	Should not be more than 10% of declared value.	255 (D)	263	Yes
d)	crank (Nm)	valent kshaft torque,	Non Evaluative	± 8%	152 (D)	150.3	Yes
e)	Back perce	-up torque, ent	Evaluative	Should be min. 12%	12 (D) 12 (R)	18.5	Yes
f)	Maxii	mum operating		°C):		1	_
	1)	Engine oil	Evaluative	The declared value should not exceed the Max value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration.	132 (D)	119	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	124 (D)	105	Yes
g)	(g/kV	umption, Vh)	Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.63 Maximum (R)	0.76	Yes
h)	Smol	ke level, m ⁻¹	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR). Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum (R)	0.22	Yes

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1		2	3	4	5	6	7
6.1.2	Dra	wbar performa		•			-
a)	with cor 15 slip	responding to percent wheel , (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	17.1 (D)		Not appli- cable
b)	with ball cor 15	x. drawbar pull n standard last responding to percent wheel , (kN)	Evaluative	In case of tractors having total static mass ≥ 1500 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be. In case of light weight tractors having ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	12.46 (R) Minimum	13.83	Yes
c)	pov	ndard ballast,	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75% of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having ≤1500 kg total static mass of tractor. Minimum 75% of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	21.84 (D) 21.06 (R) Minimum	22.2	Yes
d)	trar	ximum nsmission oil nperature, (°C)	Evaluative	The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test.	130 (D)	77	Yes
6.1.3	Po	wer lift and hyd	raulic pump p	erformance:			
a)	Ма	ximum lifting cap	acity througho	ut the range of lift, (kN):			
	1)	At hitch points	Evaluative	Should not be less than 90% of declared value.	17.65 (D) 15.89 (R) Minimum	17.39	Yes
	2)	With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft.	14.12 (D) 6.37 (R) Minimum	14.88	Yes

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1	2	3	4	5	6	7
b)	Maximum drop in	Non	The observed value should	50 (D)	20	Yes
,	the height of the	Evaluative	not exceed 50 mm.	Maximum		
	point of application					
	of the force after					
	each 5 minutes					
	interval for a total					
	duration of 30					
	Minutes, (mm)					
6.1.4	Brake performance					
a)		distance at a f	orce, equal to or less than 600) N on brake	pedal wi	th road
	ballast, (m):					
	 Cold brake 	Evaluative	10	10 (R)	7.06	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.21	Yes
b)	Whether parking	Evaluative	Yes / No	Yes	Yes	Yes
	brake is effective at					
	a force of 600 N at					
	foot pedal (s) or					
	400 N at hand lever					
6.1.5	OPTIONAL TESTS	: As the applic	cant has not applied for any o	optional test	ts, theref	ore no
	optional tests was	conducted.				
6.1.6	Safety features :					
a)	Guards against	Evaluative	Belt drives, pulleys,	Meets	the	Yes
	moving and hot		silencer, hydraulic pipes	require	ment	
	parts		[As per IS 12239 (Part2)]	•		
b)	Lighting	Evaluative	As per CMVR	Confo	rms	Yes
	arrangement		'			
c)	Seating	Non	Should meet the	Does	not	No
	requirements	Evaluative	requirements of IS: 12343	meet		
	(Tractors having		(As amended from time to	require		
	more than 1150		time)	require		
	mm rear track					
	width)					
d)	Technical	Non	Should meet the	Meets	the	Yes
۳,	requirements for	Evaluative	requirements of IS: 4931	require		
	PTO shaft		(As amended from time to			
	. To onan		time)			
e)	Dimensions of	Non	Should meet the	Does	not	No
(three point linkage	Evaluative	requirements of IS: 4468	meet		
	amoo poma mmago	_ raidalivo	(Part-I) (As amended from	require		
			time to time)	require	iliciit	
f)	Specifications of	Non	Should meet the	Meets	the	Yes
''	linkage drawbar	Evaluative	requirements of IS: 12953	require		.55
	minago arambai	_ raidalivo	(As amended from time to	. oquo.		
			time)			
g)	Swinging drawbar	Non	Should meet the	Not prov	vided	Not
9)	(wherever fitted)	Evaluative	requirement of IS: 12362	1400 010		appli-
	(Wholever integ)	Evaldativo	(Part 3) (As amended from			cable
			time to time)			Cabic
h)	Audible warning	Evaluative	If tractor travel speed in	Not fit	ted	Not
'''	signal on tractor	Lvaluative	reverse gear exceeds 20	INOUTH	iou	appli-
	Signal on tractor		kmph, an audible warning			cable
			signal on tractor shall get			Cable
			activated.			
			A sticker to the effect that			
			"operating the tractor beyond			
			20 kmph speed in reverse			
			gear is not safe" should be			
			prominently displayed.			

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1		2	3	4	5	6	7
6.1.7	Lab	elling of tracto	rs (Provision	of labelling plate):	1	1	
	1)	Make	Evaluative	Should conform to the	New Holla	and Ye	es
	2)	Model	Evaluative	requirements of CMVR	3037 TX	A1 Ye	es
	3)	Month &	Evaluative	along-with declared value of		Υe	es
		Year of		PTO in kW, Specific fuel consumption (SFC)	11/22		
		manufacture		corresponding to maximum			
	4)	Engine	Evaluative	power in g/kWh and year of	S325N028	396 Ye	es
	-\	number		manufacture in numerical	A II IN 10 00 70	71.11	
	5)	Chassis	Evaluative	form	NHN30370		es
	6)	number Maximum	Evaluative	MM YY	634206 27.3	Ye	
	0)	PTO power,	Evaluative	Digit 01-12 in box No. 1 for	21.3	16	, 5
		(kW)		MM will represent the month			
	7)	Specific fuel	Evaluative	and next two digit in the box	255	Υe	es
	'	consumption,		No. 2 for YY will represent the			
		(g/kWh)		year of manufacturing.			
6.1.8	Lite	rature (Submis	sion to test a	gency):			
(a)	Оре	erator manual	Evaluative	The printed literature in	Provided	d No)*
(b)		ts Catalogue	Evaluative	booklet form should be	Provided		
(c)		rkshop/	Evaluative	provided as per IS 8132	Provided	d No)*
	Ser	vice manual		and should submit along			
6.1.9	E:4+	nent of Bell Ove	or Protoctive	with the test sample. Structures (ROPS):			
0.1.9		tractor having	Evaluative	ROPS should meet the	Not fitted	4 N	ot
	moi	•	if fitted	requirement of IS: 11821 or	NOT TITLE	applic	
	mm	_	ii iittoa	OECD code or equivalent		аррис	abic
				International Standard.			
	wid	in					
6.1.10		tn ndard	Evaluative	Trailer hitch, front tow hook,	Provided	d Ye	s
6.1.10	Sta		Evaluative	Trailer hitch, front tow hook, linkage drawbar should be	Provided	d Ye	s
	Sta Acc	ndard essories		Trailer hitch, front tow hook, linkage drawbar should be provided with tractor			
6.1.10	Sta Acc	ndard eessories eessories	Non	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor Ballast weight, if fitted,	Provided Not fitted	d N	ot
	Sta Acc	ndard essories		Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		d N	

6.2	CATEGORY	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022):					
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirement (Yes/No)		
1.	Critical	Evaluative	There is no 'critical breakdown' during the course of testing.	None	Yes		
2.	Major	Evaluative	There are not more than 2 major breakdowns and neither of them should be of repetitive nature.	None	Yes		
3.	Minor	Evaluative	There are not more than 5 minor defects during the test and neither of them should of repetitive nature.	None	Yes		
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes		

^{*} The tractor model "3037 TX A1" is mentioned only on the cover page of the Operator's Manual, Service Manual and Parts Catalogue. The specification of tractor model "3037 TX A1" are not available in the above manuals. Therefore, does not meet the evaluative requirement of IS: 12207-2022. This should be looked into for necessary corrective action.

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6.3 Conformity with following IS:

i) Guidelines for declaration of power and specific fuel consumption and labeling : Conforms of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]

ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third : Conforms revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1 : **Does not** Categories 1, 2, 3 & 4 (fourth revision) [IS:4468(Part-I) – 1997 (Reaffirmed in conform 2022)]

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year : Conforms 2022)]

v) Agricultural tractors- Operator's seat technical requirement [IS12343 - 2021] : Does not conform

vi) Guide for safety & comfort of operator of agricultural tractors:Part 1 General : Does not requirements (first revision):[IS 12239 (Part 1) - 2018] conform

vii) Tractors and machinery for agriculture and forestry – Technical means for : Does not ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]

viii) Guide lines for location and operation of operator controls on agricultural : **Does not** tractors and machinery [IS: 8133 - 2021] **conform**

ix) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019)] Conform agricultural tractors and machinery [IS: 6283(Part-2) - 2007 (Reaffirmed Year 2019)]

x) Agricultural Tractors and Machinery-Lighting device for travel on public roads: Conforms (IS:14683-1999) (Reaffirmed Year 2019)]

6.4 Salient Observations:

6.4.1 Safety and comfort of operator:

During safety and comfort of operators test it was noticed that safety switch was not working, Upon this, the applicant has requested vide letter no. PD-PV210142 dated 14.07.2023 to check safety switch, which was allowed. Safety switch electric connections were checked, cleaned & reconnected. There after the safety switch was found working in normal condition.

6.4.2 Brake test:

During ballasting of tractor in the brake test, the LHS rear tyre tube air valve got broken. Upon this, the applicant has requested vide letter no. PD-PV210154 dated 02.08.2023 to repair the tube. Accordingly, the LHS rear tube air valve was repaired.

6.4.3 Three-point linkage:

The dimensions viz. diameter of hitch pin hole & width of ball of lower hitch points, lateral distance from lower hitch point to centre line of tractor and distance from end of power take-off to centre of lower hitch point (lower link in horizontal position) does not meet the requirements of IS:4468 (Part-I) – 1997. This should be looked into for corrective action.

6.4.4 Operator's seat:

The following parameters does not meet the requirement of IS: 12343-2021:

- i) Inclination of seat towards rear direction has been measured as 28 degrees against the requirement of 3 to 12 degrees.
- ii) Inclination of back rest has been measured as 32 degrees against the requirement of 10±5 degrees.
- iii) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- iv) Vertical distance of SIP from accelerator pedal has been measured as 520 mm against the requirement of 230 to 460 mm.
- v) Vertical distance of SIP from foot rest has been measured as 590 mm against the requirement of 450 to 520 mm.

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6.4.5 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) -2018.

- i) Vertical retainers on inner side of clutch pedal are not provided.
- ii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.6 PTO master shield:

PTO master shield has not been provided on tractor as per IS:12239-1999 (Part-2). This should be looked into for necessary corrective action.

6.4.7 Specification of Tractor

i) Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification	As per Operator's manual
		Sheet	
i)	Tractor Model	3037 TX A1	3037 TX
ii)	Engine model	TIII S325/NH.4-F57	TIII S325/NH.2 (P. No. 9-6)
iii)	High idle speed of	2200 ± 30	2200 ± 70 (P. No. 9-7)
	engine, rpm		
iv)	Rear tyre size	13.6-28	12.4-28 (P. No. 9-1)
v)	Brand name of coolant	AMBRA AGRIFLU-OT	IAT COOLANT 11- CLASSIC
			(P.No.7-8)
vi)	Coolant water ratio	3:7	Mix the concentrate with 50% of
			distilled water. (P.No.7-8)
vii)	Maximum drawbar pull	12.56	13.43 (P. No. 6-9)
	with standard ballast,		
	(kN)		
viii)	Maximum drawbar pull	21.84	20.8 (P. No. 6-9)
	with standard ballast,		
	(kN)		

ii) The tractor model "3037 TX A1" is mentioned only on the cover page of the Operator's Manual, Service Manual and Parts Catalogue. The specification of tractor model "3037 TX A1" are not available in the above manuals. Therefore, does not meet the evaluative requirement of IS: 12207-2022. This should be looked into for necessary corrective action.

6.5 Maintenance / Service Problems:

No noticeable maintenance or service problem was observed during the test.

6.6 Recommendation with regard to safety on tractor:

- i) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- ii) The hand accelerator lever, when moved away from the operator (i.e., forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
- iii) The working clearance between draft control lever, position control lever & around operators' seat has been measured as 30 mm against the minimum requirement of 70 mm.

Above parameters should be looked into for necessary corrective action.

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6.7 Adequacy of Literature supplied with machine:

- 6.7.1 The following literatures were supplied with the test tractor for reference during the test: -
 - Operator Manual for "New Holland 3032 TX A1, 3037 TX A1& 3030 TX A1" tractor models.
 - b) Service parts catalogue Part I & II for "New Holland 3032 TX A1, 3037 TX A1& 3030 TX A1" tractor models.
 - c) Service manual Part I & II for "New Holland 3032 TX A1, 3037 TX A1, 3030 TX A1 & 3600 TX A1" tractor model.
- 6.7.2 The operator manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 incorporating, inter alia, the following:
 - Safe hitch height while using trailer.
 - ii) Recommended ballast masses for different operations.

TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA

TESTING AUTHORITY

C. V. CHIMOTE TEST ENGINEER	Thuman and t
A. K. UPADHYAY DIRECTOR (I/C)	Au

Draft test report compiled by Pratyush Satya, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

Para no.	Our reference	Comments
7.1	6.4.3, 6.44, 6.45, 6.4.6, 6.6 & 6.7.2	Your valuable comments and suggestions for improvement are well taken. Under our policy of continuous product improvement, these aspects are being looked into further, and we will take appropriate action to element these deviation soon wherever necessary.
7.2	6.4.1, 6.4.2 & 6.4.7	We will study this further and appropriate actions will be taken.
7.3	6.1.8 & 6.4.7(ii)	It is not possible to mention all the model names in the technical literature because our technical literature (Operator's Manual, Repair Manual and Part Catalogue) covers complete series of different models: that is why only model series names are mentioned in place of specific model names.

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ANNEXURE - I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	14.1
3.	Power lift and hydraulic pump performance test	3.7
4.	Drawbar performance test	2.5
5.	Brake performance test	2.5
6.	Nominal speed test	1.0
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	1.9
	TOTAL:	23.2