

प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट
INITIAL COMMERCIAL TEST REPORT

संख्या/No. : T-1794/2325/2023
माह/Month : November, 2023

Application Reference No. 28/2022-23/142

(यह परीक्षण रिपोर्ट तक वैध है 30/11/2028 / THIS TEST REPORT IS VALID UPTO 30/11/2028)



Make of Agricultural Tractor : New Holland
Model : 3037 TX A2
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
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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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[C]	Tractor manufacturer's name and address	:	CNH Industrial (India) Pvt. Ltd. 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 A2
[C]	Type	:	Four Wheel Drive, Standard Agricultural Tractor.
[C]	Month & year of manufacture	:	07/23
[D]	Country of origin	:	India

1.1.2 Numbers:

[D]	1 st Serial No. of prototype	:	NHN30370ZMA538081
[C]	Serial No.	:	NHN30370ZPG662202

1.2 Engine:

[D]	Manufacturer's address	:	M/s. Simpsons & Co. Limited, R & D Centre, Hosur garden, Sembiam, Chennai-600011
[C]	Make	:	M/s. Simpsons & Co. Limited
[C]	Model	:	T IIIA S325/NH.4-F57
[C]	Type	:	Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
[C]	Serial No.	:	S325N41422

1.2.1 Cylinders:

[C]	Number/disposition	:	Three, vertical, inline
[D]	Bore / Stroke, (mm)	:	91.4 / 127
[D]	Capacity, (cm ³)	:	2500
[D]	Compression ratio	:	18.5 (±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

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5. REPAIRS

S. No.	Adjustment/Defect/Breakdown and Repairs	Tractor run hours
1.	During maximum PTO power search test under natural ambient condition, the no load engine speed was observed as 2154 rpm against the declaration of 2200±30 rpm. Upon this, the applicant vide letter no. PD-PV 2101191 dated 04.10.2023 has requested for resetting of high idle engine speed to 2200 rpm only by adjusting the idle adjustment screw, which was allowed. Accordingly, high idle speed (no load engine speed) was set at 2200 rpm and PTO performance test was carried out.	2.35
2.	During hydraulic performance test, it is observed that the pump delivery rate at maximum power is recorded as 19.5 l/min. against the declared value of 24±3 l/min. Therefore applicant has requested to clean the hydraulic oil and change hydraulic oil filter vide letter no. PD-PV 210195 dated 13.10.2023. After approval from the competent authority, hydraulic oil reservoir common with gear box and differential drained & cleaned. Hydraulic oil filter (part no. 4815443, quantity 01 No.) has been replaced with the same specification which is not categorized in the breakdown/defect as per IS: 12207 – 2022.	21.5

6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

- 6.1 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:

Sl. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
MANDATORY TESTS: (As per Ministry's Office Memorandum No. 13-17/2021-M&T (I&P) dated 28th of July, 2022).						
6.1.1	PTO Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient 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)	27.7	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	27.3 (D)	27.3	Yes
1	2	3	4	5	6	7
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value.	255 (D)	263	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	152 (D)	153.8	Yes
e)	Back-up torque, percent	Evaluative	Should be min. 12%	12 (D) 12 (R)	17.9	Yes

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1	2	3	4	5	6	7	
f)	Maximum operating temperature, (°C):						
	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)	112	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)	90	Yes
g)	Engine oil consumption, (g/kWh)	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)	0.73	Yes	
h)	Smoke 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)	0.20	Yes	
6.1.2	Drawbar performance:						
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*	
b)	Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (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.	13.87	19.19	Yes	
				14.72 (R) Minimum			
c)	Maximum drawbar power with standard ballast, (kW).	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)	24.5	Yes	
				22.2 (R) Minimum			

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1	2	3	4	5	6	7	
d)	Maximum transmission oil temperature, (°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)	100	Yes	
Remark: * Applicant vide letter No. PD-PV 210177 dated 14.09.2023 has requested not to conduct the ballasted drawbar performance and ten hour test which was allowed as per the additional guidelines for testing of tractor as per new regime of testing of tractor vide OM no. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, only standard ballasted drawbar performance test was conducted							
6.1.3 Power lift and hydraulic pump performance:							
a)	Maximum lifting capacity throughout 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	19.05	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) 6.52 (R) Minimum	14.98	Yes
b)	Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)		Non Evaluative	The observed value should not exceed 50 mm.	50 (D) Maximum	15	Yes
6.1.4 Brake performance at 25 kmph:							
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with road ballast, (m):						
	1)	Cold brake	Evaluative	10	10 (R)	7.09	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.51	Yes
b)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever		Evaluative	Yes / No	Yes	Yes	Yes
6.1.5 OPTIONAL TESTS: As the applicant has not applied for any optional tests, therefore no optional tests was conducted.							
6.1.6 Safety features :							
a)	Guards against moving and hot parts		Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Meets the requirement		Yes
b)	Lighting arrangement		Evaluative	As per CMVR	Conforms		Yes
c)	Seating requirements (Tractors having more than 1150 mm rear track width)		Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does not meet the requirement		No

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1	2	3	4	5	6	7	
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requirement		Yes	
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 17231-2019 (As amended from time to time)	Does not meet the requirement		No	
f)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement		Yes	
g)	Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not provided		Not applicable	
h)	Audible warning signal on tractor	Evaluative	If tractor travel speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor shall get activated. A sticker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed.	Not fitted		Not applicable	
6.1.7	Labelling of tractors (Provision of labelling plate):						
	1) Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO in kW, Specific fuel consumption (SFC) corresponding to maximum power in g/kWh and year of manufacture in numerical form <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>MM</td><td>YY</td></tr></table> Digit 01-12 in box No. 1 for MM will represent the month and next two digit in the box No. 2 for YY will represent the year of manufacturing.	MM	YY	NEW HOLLAND	Yes
MM	YY						
	2) Model	Evaluative		3037 TX A2	Yes		
	3) Month & Year of manufacture	Evaluative		07/23	Yes		
	4) Engine number	Evaluative		S325N41422	Yes		
	5) Chassis number	Evaluative		NHN30370ZPG 662202	Yes		
	6) Maximum PTO power, (kW)	Evaluative		27.3	Yes		
	7) Specific fuel consumption, (g/kWh)	Evaluative	255	Yes			
6.1.8	Literature (Submission to test agency):						
(a)	Operator manual	Evaluative	The printed literature in booklet form should be provided as per IS 8132 and should submit along with the test sample.	Provided	Yes*		
(b)	Parts Catalogue	Evaluative		Provided	Yes*		
(c)	Workshop/ Service manual	Evaluative		Provided	Yes*		
6.1.9	Fitment of Roll Over Protective Structures (ROPS):						
	For tractor having more than 1150 mm rear track width	Evaluative if fitted	ROPS should meet the requirement of IS: 11821 or OECD code or equivalent International Standard.	Not fitted		Not applicable	

Remark: * The model 3037 TX AND 3230 TX are collectively applicable for the below variants shown in the front fly sheet. "3037TX: 3037 TX A1 & 3037 TX A2; 3230TX: 3230TX A1 & 3230TX A2". Refer page 1-1 of operator's manual; page 1 of service manual Part-I, Part II & Part III and & page 2 of service parts catalogue Part I.

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1	2	3	4	5	6	7
6.1.10	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided		Yes
6.1.11	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Provided		Yes

6.2 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

6.3 Conformity with following IS:

- i) Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)] : Conforms
- ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third revision) [IS:4931-1995 (Reaffirmed Year 2019)] : Conforms
- iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Categories 1, 2, 3 & 4 [IS:17231-2019] : **Does not conform**
- iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year 2022)] : Conforms
- 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 requirements (first revision):[IS 12239 (Part 1) - 2018] : **Does not conform**
- vii) Tractors and machinery for agriculture and forestry – Technical means for ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) (Reaffirmed Year 2019)] : **Does not conform**
- viii) Guide lines for location and operation of operator controls on agricultural tractors and machinery [IS: 8133 - 2021] : **Does not 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) and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)] : **Does not conform**
- x) Agricultural Tractors and Machinery-Lighting device for travel on public roads (IS:14683-1999) (Reaffirmed Year 2019)] : Conforms

6.4 Salient Observations:

6.4.1 Laboratory tests:

6.4.1.1 PTO Performance Test:

During maximum PTO power search test under natural ambient condition, the no load engine speed was observed as 2154 rpm against the declaration of 2200±30 rpm. Upon this, the applicant vide letter no. PD-PV 2101191 dated 04.10.2023 has requested for resetting of high idle engine speed to 2200 rpm only by adjusting the idle adjustment screw, which was allowed. Accordingly, high idle speed (no load engine speed) was set at 2200 rpm and PTO performance test was carried out.

6.4.1.2 Hydraulic performance test

During hydraulic performance test, it is observed that the pump delivery rate at maximum power is recorded as 19.5 l/min. against the declared value of 24±3 l/min. Therefore applicant has requested to clean the hydraulic oil and change hydraulic oil filter vide letter no. PD-PV 210195 dated 13.10.2023. After approval from the competent authority, hydraulic oil reservoir common with gear box and differential drained & cleaned. Hydraulic oil filter (part no. 4815443, quantity 01 No.) has been replaced with the same specification which is not categorized in the breakdown/defect as per IS: 12207 – 2022.

6.4.1.3 Three-point linkage:

The dimensions viz. 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.

6.4.1.4 Operator’s seat:

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

- i) Provision for adjustment of driver’s mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- ii) Vertical distance of SIP from accelerator pedal has been measured as 530 mm against the requirement of 230 to 460 mm.
- iii) Vertical distance of SIP from foot rest has been measured as 590 mm against the requirement of 450 to 520 mm.
- iv) Vertical distance of SIP to center of steering control wheel has been measured as 230 mm against the requirement of 265 to 385 mm.

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

6.4.1.5 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.

6.4.1.6 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.

6.4.1.7 Specification of Tractor:

Discrepancies in the specification between the specification sheet and Operator’s manual are as under.

S. No.	Description	As par specification sheet	As per Operator’s manual
i)	Lubricant capacity gear box, differential, rear axle, rear final drive, hydraulic system, & service brakes, (l)	23.0	26.2L (4WD dry land) 26.5L (4WD wet land) (Pg.No.-7-8)
ii)	Front differential & front final drive,(l)	7.0	7.5 (Pg.No.-7-8)




6.5 Maintenance / Service Problems:

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

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- 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 tipping trolley lever and mudguard has been measured as 30 mm against the minimum requirement of 70 mm.
- Above parameters should be looked into for necessary corrective action.
- 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: -
- a) Operator's Manual for "New Holland 3037 TX A1, 3037 TX A2, 3230 TX A1 & 3230TX A2" tractor models.
 - b) Parts catalogue part – I & II for "New Holland 3037 TX A1, 3037 TX A2, 3230 TX A1 & 3230 TX A2" tractor models.
 - c) Service manual Part-I, II & III for "New Holland 3037 TX A1, 3037 TX A2, 3230 TX A1 & 3230 TX A2" tractor models.
- 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:
- i) 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.K. TIJARE AGRICULTURAL ENGINEER	
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER	
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by Dharmendra Kumar, Senior Technical Assistant.

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7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
7.1	6.4.1.4, 6.4.1.5, 6.4.1.6, 6.4.1.7, 6.6 & 6.7.2	Your valuable comments and suggestions for improvements are taken. Under our policy of continuous product improvement, these aspects are being looked into further, and we will take appropriate actions to eliminate these deviations soon wherever necessary.
7.2	6.4.1.16 & .4.1.2	We will study this further, and appropriate actions will be taken.

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	15.45
3.	Power lift and hydraulic pump performance test	4.8
4.	Drawbar performance test	2.72
5.	Brake performance test	2.0
6.	Nominal speed test	1.43
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	2.06
	TOTAL:	28.46