

प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट
INITIAL COMMERCIAL TEST REPORT

संख्या/No. : T- 1818/2349/2024
माह/Month : January, 2024

Application Reference No. 28/2022-23/141

(यह परीक्षण रिपोर्ट 31/01/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/01/2029)



Make of Agricultural Tractor : NEW HOLLAND
Model : 5630 TX A1
Manufactured by : CNH Industrial (India) Pvt. Ltd.
Plot No.-03, Udyog Kendra,
Greater Noida - 201 306 ,
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)

E-mail: fmti-mp@nic.in

Web site: <http://www.fmttibudni.gov.in>

Telephone: 07564-299003

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers Welfare has directed, vide a 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

| | | |
|----------------|-----------------------------------|------------|
| Month: January | Test Report No.: T-1818/2349/2024 | Year: 2024 |
|----------------|-----------------------------------|------------|



GOVERNMENT OF INDIA
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There is apparently a “Three Modes” in the tractor. The applicant has christened the different mode as “Power, ECO and ECO+”. However, the applicant vide letter no. PD-PV 210216 dated 22.11.2023 requested to conduct the test only on so called Power mode. Therefore, this report contains the observation on the so call “Power mode” only

- [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:
-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) : 5630 TX A1
- [C] Type : Four Wheel Drive, Standard Agricultural Tractor
- [C] Month & year of manufacture : 05/2022
- [D] Country of origin : India

1.1.2 Numbers:

- [D] 1st Serial No. or prototype : NHN56300ZME553388
- [C] Serial No. : NHN56300ZNE606757

1.2 Engine:

- [D] Manufacturer’s address : TURKY TRAKTOR VE ZIRAAT MAKINELENRI
A.S, GAZI MAHALLESI, ANAD014, BULVARI
NO 52-52A YENIMAHALLE ANKARA (Turkey)
- [C] Make : TURK TRAKTOR VE ZIRAAT MAKINELERI,
TURKEY
- [C] Model : 8035.25D.TRM4
- [C] Type : Four strokes, common rail direct injection, Liquid cooled, turbocharged, diesel engine
- [C] Serial No. : 557714

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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: $\pm 5\%$ for PTO power and or engine power > 26 kW. $\pm 10\%$ for PTO power and or engine ≤ 26 kW. | 51.5 (D) | 50.1 | Yes |
| b) | Power at rated engine speed, (kW) | Non Evaluative | -do- | 46.3 (D) | 45.9 | Yes |
| c) | Specific fuel consumption corresponding to maximum power, (g/kWh) | Evaluative | Should not be more than 10% of declared value. | 250 (D) | 254 | Yes |
| d) | Maximum equivalent crankshaft torque, (Nm) | Non Evaluative | $\pm 8\%$ | 325 (D) | 311.0 | Yes |
| e) | Back-up torque, percent | Evaluative | Should be min. 12% | 12, Min. (D) 12 (R) | 63.2 | Yes |
| f) | Maximum operating temperature, ($^{\circ}\text{C}$): | | | | | |
| | 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) | 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) | 107 | 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 | 2.54 Maximum (R) | 0.60 | 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) | 0.01 | Yes |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|--------------|--|--|--|--|-----------------------------------|----------------|-----|
| 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. | * | * | Not applicable | |
| b) | Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN) | Evaluative | In case of tractors having total static mass \geq 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 \leq 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. | 23.4 (D) 23.48 (R) Minimum | 32.18 | Yes | |
| 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 \leq 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. | 41.2 (D) 40.1 (R) Minimum | 43.5 | Yes | |
| d) | Maximum transmission oil temperature, ($^{\circ}$ 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. | 132 (D) | 131 | Yes | |
| 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. | 19.61 (D) 17.65 (R) Minimum | 18.56 | 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. | 15.30 (D) 11.79 (R) Minimum | 16.20 | 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 | 40 | Yes |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------|--|----------------|--|--------------------------------------|------|----------------|
| 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) | 7.69 | Yes |
| | 2) Hot brake | Evaluative | 10 | 10 (R) | 7.88 | 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 |
| d) | Technical requirements for PTO shaft | Non Evaluative | Should meet the requirements of IS: 4931 (As amended from time to time) | Conforms | | Yes |
| e) | Dimensions of three point linkage | Non Evaluative | Should meet the requirements of IS: 17231:2019 | 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 fitted | | 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 (16.20 kmph in HR gear) | | Not applicable |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
|---------------|--|-----------------------------|--|---|-----------------------|-----|-------------|-----|
| 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 | | 5630 TX A1 | Yes | | |
| | 3) | Month & Year of manufacture | Evaluative | | 05/22 | Yes | | |
| | 4) | Engine number | Evaluative | | 557714 | Yes | | |
| | 5) | Chassis number | Evaluative | | NHN56300ZNE6 06757 | Yes | | |
| | 6) | Maximum PTO power, (kW) | Evaluative | | 51.5 | Yes | | |
| 7) | Specific fuel consumption, (g/kWh) | Evaluative | 250 | | 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 | ROPS should meet the requirement of IS:11821 or OECD code or equivalent International Standard. | ROPS fitted [Meets the requirement of IS: 11821 (Part-2) vide test certificate No. ED/14-15/1499976 374/ P2063 Dated 28/11/2014] & ED/14-15/1499976 374/P2063 Extension 01 Dated 03/03/2020] | Yes | | | |
| 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 |

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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: Part 1 Categories 1N, 1, 2N, 2, 3N, 3, 4 & 4N [IS:17321-2019] : **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 Dimension of Three Point Linkage:

The dimensions viz. width of ball of upper hitch points & lower hitch point tyre clearance does not meet the requirements of IS: 17231:2019 and needs to be looked into for necessary corrective actions.

6.4.2 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 495 mm against the requirement of 230 to 460 mm.
- iii) Longitudinal distance of SIP from accelerator pedal has been measured as 200 mm against the requirement of 410 to 720 mm
- iv) Vertical distance of SIP from foot rest has been measured as 550 mm against the requirement of 450 to 550 mm.

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

6.4.3 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 and brake pedals have not been 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.

6.4.4 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.

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6.4.5 Specification of Tractor

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

| S. No. | Description | As per Specification Sheet | As per Operator's manual |
|--------|---|----------------------------|---|
| i) | Brand name of coolant | AMBRA AGRIFLU-OT | ASTM D 3306 (P. No. 9-9) |
| ii) | Front axle & front final drive oil capacity (l) | 8.0 | 5 (Front axle) 1.25 each side (front final drive) (P. No. 9-9) |

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) Colour codes on illuminated display has not been provided as per the requirement as laid down in IS: 6283 (Part 2): 2007.
- ii) Identification of PTO engage lever by colour has not been provided as per the requirement as laid down in Table - 5 of IS: 8133-2021.
- iii) 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.
- iv) The working clearance between mudguard & PTO clutch has been measured as 30 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) - 2019

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 Manual for "New Holland 5620TX A1, 5620TX A2, 5620TX A3, 5620TX A4, 5630TX A, 5630TX A1, 5630TX A2, 5630TX A3" tractor models.
- b) Parts catalogue for "New Holland 5620TX A1, 5620TX A2, 5620TX A3, 5620TX A4, 5630TX A, 5630TX A1, 5630TX A2, 5630TX A3" tractor models..
- c) Service manual Part – I, II & III for "New Holland 5620TX A1, 5620TX A2, 5620TX A3, 5620TX A4, 5630TX A, 5630TX A1, 5630TX A2, 5630TX A3" 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) Recommended ballast masses for different operations.
- ii) Safe hitch height while using trailer.
- iii) Coolant water ratio

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

TESTING AUTHORITY

| | |
|--|---|
| B.N DIXIT AGRICULTURAL ENGINEER |  |
| R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER |  |
| A. K. UPADHYAY DIRECTOR (I/C) |  |

Draft Test Report compiled by **Poonam Khurasia**, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

| Para no | Our reference | Applicant's comments |
|---------|------------------------------|--|
| 7.1 | 6.4.1, 6.4.2, 6.4.3, & 6.4.4 | 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 eliminate these deviations soon wherever necessary. |
| 7.2 | 6.4.5 & 6.7.2 | We will study this further, and appropriate action will be taken. |

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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 | 16.2 |
| 3. | Power lift and hydraulic pump performance test | 4.2 |
| 4. | Drawbar performance test | 6.6 |
| 5. | Brake performance test | 2.0 |
| 6. | Nominal speed test | 2.0 |
| B. | Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test | 2.0 |
| TOTAL: | | 33.0 |