प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T- 1826/2357/2024 INITIAL COMMERCIAL TEST REPORT माह/Month : February, 2024

Application Reference No. 28/2023-24/5

(यह परीक्षण रिपोर्ट 28/02/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 28/02/2029)



Make of Agricultural Tractor: New Holland

Model : 3630 TX Plus+ A7

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)

E-mail: fmti-mp@nic.in Web site: http://www.fmttibudni.gov.in Telephone: 07564-299003

THIS TEST REPORT IS VALID UPTO:28/02/2029

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: February | Test Report No.: T-1826/2357/2024 | Year: 2024 |
|-----------------|-----------------------------------|-------------|
| wonth: February | Test Report No.: 1-1626/235//2024 | 1 ear: 2024 |



GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

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CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE - BUDNI

T-1826/2357/2024 NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST THIS TEST REPORT IS VALID UPTO:28/02/2029

[C] Tractor manufacturer's name and address : M/s 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 : 3630 TX Plus+ A7

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

[C] Month & year of manufacture : 09 / 23 [D] Country of origin : India

1.1.2 Numbers:

[D] 1st Serial No. of prototype : Not announced

[C] Serial No. : NHN36300ZPJ669059

1.2 Engine:

[D] Manufacturer's address : M/s CNH Industrial India Pvt. Ltd.

Plot No-3, Udyog Kendra, Greater Noida - 201306,

Distt. Gautam Budh Nagar, Uttar Pradesh

[C] Make : FPT

[C] Model : 8035.25.736

[C] Type : Four stroke, turbo charged, liquid cooled, direct

injection, diesel engine.

[C] Serial No. : 420143DX

1.2.1 Cylinders:

[C] Number/disposition : Three / Verticle, Inline

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

1.2.3 Fuel system:

[C] Fuel feed system : Gravity and force feed

NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO:28/02/2029

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. | Characteristic | | Category (Evaluative / Non Evaluative) | Requirements as per IS: 12207-2022 | Values declared by the applicant/ (D) Requirement (R) | As observed | Whether meets the require- ments (Yes/No) |
|------------|--|---|---|--|---|----------------|---|
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | inistry's Office Memorandum | No. 13-17/ | 2021-M& | T (I&P) |
| | | d 28 th of July, 2 | 2022) | | | | |
| 6.1.1 | PTO | Performance: | | | | | |
| 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. | 33.6 (D) | 33.8 | Yes |
| b) | | er at rated ne speed,(kW) | Non Evaluative | -do- | 33.6 (D) | 33.1 | Yes |
| c) | Spec cons corre | ific fuel umption sponding to mum power, | Evaluative | Should not be more than 10% of declared value. | 252 (D) | 250.0 | Yes |
| d) | Maximum equivalent crankshaft torque, (Nm) | | Non Evaluative | ± 8% | 230 (D) | 225.9 | Yes |
| е) | Back perce | -up torque, ent | Evaluative | Should be min. 12% | 12 (D) 12 (R) | 50.0 | Yes |
| f) | Maxi | mum 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) | 116 | 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) | 102 | Yes |
| g) | Engir cons (g/kV | umption, | 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 | 2.50 Maximum (R) | 0.67 | 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) | 0.29 | Yes |

NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO:28/02/2029

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------|--|-------------------|--|----------------------------------|-------|-----------------------|
| 6.1.2 | Drawbar performan | ce: | | | | |
| 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 applica ble |
| 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. | 15.1 (D) 14.45 (R) Minimum | 17.36 | 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 ≤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. | 26.9 (D) 27.0 (R) Minimum | 27.8 | Yes |
| 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. 223 dated 13.12.2023 has reques | 132 (D) | 100 | Yes |

Remark: * Applicant vide letter no. PD-PV 2101223 dated 13.12.2023 has requested not to conduct the ballasted drawbar performance test & ten-hour drawbar test which is allowed as per the additional guideline for testing of tractors as per new regime of testing of tractors vide an OM No. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under standard ballast condition was conducted only.

| .0.00.20 | 025. Accordingly, drawbar performance test under standard ballast condition was conducted only. | | | | | | | |
|----------|---|--|-------------------|--|----------------------------------|-------|-----|--|
| 6.1.3 | Po | Power lift and hydraulic pump performance: | | | | | | |
| a) | Ma | Maximum lifting capacity throughout the range of lift, (kN): | | | | | | |
| - | 1) | At hitch points | Evaluative | Should not be less than 90% of declared value. | 13.7 (D) 12.33 (R) Minimum | 14.21 | 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. | 9.8 (D) 7.96 (R) Minimum | 11.22 | Yes | |
| b) | heigh appli after inter | mum drop in the nt of the point of cation of the force each 5 minutes val for a total duration Minutes, (mm) | Non Evaluative | The observed value should not exceed 50 mm. | 50 (D) Maximum | 35 | Yes | |

NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO:28/02/2029

| 1 | | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------|--------|-------------------------------|-----------------|---|-----------------------|------------|---------------|
| 6.1.4 | Bral | ce performance | e at 25 kmph: | | | | |
| a) | | imum stopping ast, (m): | distance at a f | force, equal to or less than 600 |) N on brake | pedal wit | h road |
| | 1) | Cold brake | Evaluative | 10 | 10 (R) | 6.43 | Yes |
| | 2) | Hot brake | Evaluative | 10 | 10 (R) | 6.67 | Yes |
| b) | Whe | ther parking | Evaluative | Yes / No | Yes | Yes | Yes |
| | brak | e is effective | | | | | |
| | at a | force of 600 N | | | | | |
| | at fo | ot pedal (s) or | | | | | |
| | 400 | N at hand | | | | | |
| | leve | r | | | | | |
| 6.1.5 | | | | cant has not applied for any o | optional test | s, therefo | ore no |
| 0.4.0 | | onal tests was | conducted. | | | | |
| 6.1.6 a) | Gua | ety features : rds against | Evaluative | Belt drives, pulleys, silencer, | Confo | rme | Yes |
| aj | mov | • | Lvalualive | hydraulic pipes [As per IS | COITIO | 11113 | 162 |
| | parts | • | | 12239 (Part2)] | | | |
| b) | Ligh | | Evaluative | As per CMVR | Confo | rms | Yes |
| | | ngement | | | | | |
| c) | Seat | | Non | Should meet the | Does | | No |
| | | irements ctors having | Evaluative | requirements of IS: 12343 (As amended from time to | meet | | |
| | ` | e than 1150 | | time) | require | ment | |
| | mm | rear track | | | | | |
| | widtl | | | | | | |
| d) | I | nnical | Non | Should meet the | Meets | | Yes |
| | | irements for shaft | Evaluative | requirements of IS: 4931 (As amended from time to time) | require | ment | |
| e) | | ensions of | Non | Should meet the | Meets | the | Yes |
| ٥, | | e point linkage | Evaluative | requirements of IS: | require | | 100 |
| | | | | 17231:2019 (As amended | • | | |
| | | | | from time to time) | | | |
| f) | | cifications of | Non | Should meet the | Meets | | Yes |
| | IINKa | ige drawbar | Evaluative | requirements of IS: 12953 (As amended from time to | require | nent | |
| | | | | time) | | | |
| g) | Swir | nging drawbar | Non | Should meet the | Not pro | vided | Not |
| J. | | erever fitted) | Evaluative | requirement of IS: 12362 | · | | appli- |
| | | | | (Part 3) (As amended from | | | cable |
| le / | Audi | blo warning | Evoluctive | time to time) | Not fit | tod | Not |
| h) | | ble warning al on tractor | Evaluative | If tractor travel speed in reverse gear exceeds 20 | Not 11t (13.71 km) | | Not appli- |
| | Jigili | a. 011 (100t0) | | kmph, an audible warning | gear | | cable |
| | | | | signal on tractor shall get | 954. | , | |
| | | | | activated. | | | |
| | | | | A sticker to the effect that | | | |
| | | | | "operating the tractor | | | |
| | | | | beyond 20 kmph speed in reverse gear is not safe" | | | |
| | | | | should be prominently | | | |
| | | | | displayed. | | | |

NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO:28/02/2029

| Labelling of tractors (Provision of labelling plate): | 1 | | 2 | 3 | 4 | 5 | 6 | | 7 |
|--|---------|-------|-------------------|-----------------|------------------------------|----------|------------|------|---------|
| 2) Model Evaluative Solony-with declared value of proper provided proper provided proper provided provided provided proper provided provide | 6.1.7 | Lak | elling of tractor | rs (Provision o | f labelling plate): | | • | | |
| 3 Month & Evaluative Year of manufacture Evaluative Tool in kW, Specific fuel consumption (SFC) So Chassis Evaluative Number So Chassis So Chassis Evaluative Number So Chassis So Chassi | | 1) | Make | Evaluative | | NEW | HOLLANI |) | Yes |
| Provided | | | Model | Evaluative | | 3630 | | ١7 | Yes |
| Teal of manufacture Evaluative Consumption Consum | | 3) | Month & | Evaluative | along-with declared value of | | 09/23 | | Yes |
| Manufacture A Engine number Evaluative Corresponding to maximum A20143DX Yes Number Sevaluative Sevaluat | | | | | | | | | |
| Solumber Evaluative Solumber Solumbe | | | | | | | | | |
| Number Form | | | | | power in g/kWh and year of | | | 0=0 | |
| 6) Maximum PTO power, (kW) 7) Specific fuel consumption, (g/kWh) 8.18 Literature (Submission to test agency): (a) Operator manual (b) Parts Catalogue Evaluative (c) Service manual (b) Parts Catalogue Evaluative Service manual (c) Workshop/ Service manual 6.1.9 Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 mm rear track width 6.1.10 Standard Accessories 6.1.11 Accessories 6.1.11 Accessories Non (optional) 6.1.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2022): S. No. Category of break-downs Cate | | 5) | | Evaluative | | NHN36 | 300ZPJ669 | 059 | Yes |
| Power, (kW) Evaluative consumption, (g/kWh) Specific fuel consumption, (g/kWh) September Sep | | 6) | | Evaluativa | | | 22.6 | | Voc |
| Total breakdowns Evaluative consumption | | 6) | | Evaluative | | | 33.0 | | 165 |
| Consumption, (g/kWh) So 2 for Y will represent the year of manufacturing. | | 7) | | Evaluative | | | 252 | | Yes |
| Combined | | • , | | Evaluativo | | | 202 | | 100 |
| Standard Accessories Non (optional) Evaluative | | | | | | | | | |
| (a) Operator manual Evaluative (b) Parts Catalogue Evaluative Provided Structures (c) Provided Structures (c) Service manual Provided Provided Not appliance of Control Code or equivalent International Standard. 6.1.10 Standard Accessories Non Ballast weight, if fitted, should be provided with tractor should be provided with tractor manual Provided | | | , | | | | | | |
| Co Workshop/ Service manual Evaluative Service manual Service Service manual Service Ser | | | | | | = | <u></u> | | |
| Cc Service manual Evaluative Service manual Provided Service manual Provided Service manual Provided Provided Yes | | | | | | | | | |
| Service manual and should submit along with the test sample. | | | | | | | | | |
| With the test sample. | (c) | | | Evaluative | | ŀ | rovided | | Yes |
| Fitment of Roll Over Protective Structures (ROPS): For tractor having more than 1150 mm rear track width Evaluative more than 1150 mm rear track width Evaluative or OECD code or equivalent International Standard. International Standard. Provided Accessories Evaluative Accessories Evaluative mook, linkage drawbar should be provided with tractor Provided meet the requirement of CMVR | | Ser | vice manual | | | | | | |
| For tractor having more than 1150 mm rear track width Standard Evaluative Evaluative ROPS should meet the requirement of IS: 11821 or OECD code or equivalent International Standard. | 6.1.9 | Fitr | ment of Roll Ove | er Protective S | | <u> </u> | | | 1 |
| more than 1150 mm rear track width | 01110 | | | | | ١ | Not fitted | | Not |
| rear track width or OECD code or equivalent International Standard. 6.1.10 Standard Accessories Evaluative Accessories Intractor 6.1.11 Accessories (optional) Evaluative Evaluative International Standard. Non Evaluative Evaluative Intractor S. No. Category of break-downs Category of break-downs 1. Critical Evaluative Evaluative International Standard. Evaluative Intractor Requirement of CMVR As observed Requirements as per IS: 12207-2022 As observed Requirement (Yes/No) There is no 'critical breakdown' during the course of testing. Provided Yes Yes Whether meets the Requirements as per IS: 12207-2022 There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should be of repetitive nature. 4. Total breakdowns Evaluative In no case, the total number of breakdowns should exceed five that is, (2 major + 4 minor) or 5 | | | | 0 | | | | | |
| Standard Accessories Evaluative Trailer hitch, front tow hook, linkage drawbar should be provided with tractor Provided Yes | | rea | r track width | | | | | | |
| Standard Accessories | | | | | equivalent International | | | | |
| Accessories hook, linkage drawbar should be provided with tractor 6.1.11 Accessories (optional) Evaluative Provided with tractor Ballast weight, if fitted, should meet the requirement of CMVR 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) 1. Critical Evaluative Provided meet the requirement of CMVR 1. Critical Evaluative Provided meet the requirements as per IS: 12207-2022 There is no 'critical breakdown' during the course of testing. 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | | | | | | | | |
| Should be provided with tractor Should be provided with tractor Should meet the requirement of CMVR | 6.1.10 | | | Evaluative | | F | Provided | | Yes |
| 6.1.11 Accessories (optional) Evaluative Evaluative Evaluative Evaluative Evaluative Category of break-downs Critical Evaluative Evaluative There is no 'critical breakdown' during the course of testing. Category of break-downs Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. Total breakdowns Evaluative Evaluative Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | Acc | essories | | | | | | |
| Accessories (optional) Ballast weight, if fitted, should meet the requirement of CMVR | | | | | · · | | | | |
| Category of break-downs | 6 4 44 | ۸۵۵ | occarios | Non | | Г | Provided | | Voc |
| Total breakdowns Total breakdowns should exceed five that is, (2 major + 4 minor) or 5 Total breakdowns Total breakdown | 0.1.11 | | | | _ | , | rovided | | 165 |
| S. No. Category of break-downs Category (Evaluative / Non Evaluative) There is no 'critical breakdown' during the course of testing. | | (Op | lional) | Lvaluative | | | | | |
| S. No. Category of break-downs Category (Evaluative / Non Evaluative) 1. Critical Evaluative There is no 'critical breakdown' during the course of testing. Category (Evaluative) There is no 'critical breakdown' during the course of testing. There are not more than 2 major breakdowns and neither of them should be of repetitive nature. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | 6.2 | CV. | TEGORY OF RE | FAKDOWNS / | | 0 of IS | -12207-20 | 221. | |
| break-downs (Evaluative / Non Evaluative) 1. Critical Evaluative There is no 'critical breakdown' during the course of testing. 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 4. Total breakdowns Evaluative 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 | | | | | | | | | nether |
| Non Evaluative) 1. Critical Evaluative There is no 'critical breakdown' during the course of testing. 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | 0. 140. | | | | | A3 01 | JSCI VCU | me | ets the |
| 1. Critical Evaluative There is no 'critical breakdown' during the course of testing. 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | _ ^ | oroak aowiio | • | uo poi 10: 12201 2022 | | | | |
| 1. Critical Evaluative There is no 'critical breakdown' during the course of testing. 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | | | | | | | (16 | es/NO) |
| 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | 1. | Crit | ical | | There is no 'critical | N | lone | , | Yes |
| 2. Major Evaluative There are not more than 2 major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | | | | breakdown' during the | | | | |
| major breakdowns and neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | | | | | | | | |
| neither of them should be of repetitive nature. 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | 2. | Maj | or | Evaluative | | N | lone | • | Yes |
| 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 4. Total breakdowns Evaluative In no case, the total number of breakdowns should exceed five that is, (2 major + 4 minor) or 5 | | | | | | | | | |
| 3. Minor Evaluative There are not more than 5 minor defects during the test and neither of them should of repetitive nature. 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 | | | | | | | | | |
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| test and neither of them should of repetitive nature. 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 | ა. | IVIIN | IOI" | Evaluative | | I N | ione | | t es |
| should of repetitive nature. 4. Total breakdowns Evaluative In no case, the total number of breakdowns should exceed five that is, (2 major + 4 minor) or 5 | | | | | | | | | |
| 4. Total breakdowns Evaluative In no case, the total number of breakdowns should exceed five that is, (2 major + 4 minor) or 5 | | | | | | | | | |
| number of breakdowns should exceed five that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 | 4 | Tot | al breakdowns | Fyaluative | | N | lone | | Yes |
| should exceed five that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 | ļ | 100 | ai bioanaowiis | _ valuative | | 1 | 10110 | | . 03 |
| (2 major + 3 minor) or (1 major + 4 minor) or 5 | | | | | | | | | |
| major + 4 minor) or 5 | | | | | | | | | |
| | | | | | | | | | |
| minor broakdowns. | | | | | minor breakdowns. | | | | |

NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO:28/02/2029

6.3 Conformity with following IS:

- Guidelines for declaration of power and specific fuel consumption and : Conforms labeling 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: Categories : **Does not** 1N,1,2N, 2, 3N, 3,4N & 4 [IS: 17231:2019] conform
- iv) Drawbar for agricultural tractors Link type [IS 12953:1990 (Reaffirmed Year : 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 : 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)] and 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 Power take-off performance test:

- i) Applicant vide letter no. PD-PV 04 dated 08.01.2024 has recommended that tractor operating range is from 1000 rpm to rated engine rpm under full load condition. Hence during PTO performance test, varying speed test was conducted upto 1000 rpm of engine only under natural and high ambient condition.
- **ii)** During varying speed test at high ambient condition maximum power observed at 1949 engine rpm but after completion of 2 hours maximum power test, at this rpm average observed power 30.2 kW, which is less than the power observed at rated engine rpm in varying speed test. Hence 2 hour maximum power test was re-conducted at rated engine speed and declared maximum power in high ambient condition.

6.4.2 Operator's seat:

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

- i) Longitudinal distance from SIP to center line of differential lock pedal has been measured as 175 mm against the requirement of 410 to 720 mm.
- ii) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- iii) Vertical distance from SIP to center line of accelerator pedal & differential lock pedal has been measured as 490 mm against the requirement of 230 to 460 mm.
- iv) Vertical distance from SIP to center line of steering control wheel has been measured as 205 mm against the requirement of 265 to 385 mm.
- v) Vertical distance of SIP from foot rest has been measured as 560 mm against the requirement of 450 to 520 mm.

Therefore, all of the above parameters 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 retainer on inner side of clutch & brake pedal 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.

NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST

THIS TEST REPORT IS VALID UPTO:28/02/2029

PTO master shield: 6.4.4

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

Specification of Tractor: 6.4.5

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

| as un | | As per Specification Sheet | As per Operator's manual |
|--------|---|----------------------------|--------------------------|
| S. No. | Description | 715 per openiment | |
| i) | Brand name of coolant | AMBRA AGRIFLU-OT | ASTM D 3306 |
| -/ | Rear axle oil capacity, (I) | Common with gearbox | 4.5 (each side) |
| / | | | Not announced |
| iii) | Rear final drive oil capacity & brand name, (I) | 4.0 (each side) | 140t almounous |

All of the above should be looked into for necessary corrective action

Maintenance / Service Problems: 6.5

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

Recommendation with regard to safety on tractor: 6.6

- 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.
- Color code on illuminated display has not been provided as per the requirement as laid down in IS: 6283 (Part 2): 2007.

Above parameters should be looked into for necessary corrective action.

Adequacy of Literature supplied with machine: 6.7

- The following literatures were supplied with the test tractor for reference during the test: -6.7.1
 - Operator's Manual for "New Holland, 3630TX+ UG A5, 3630TX Plus+ UG 4WD A6, 3630TX Plus+ A7 and 3630TX Plus+ UG 4WD A8" tractor models.
 - Parts catalogue for "New Holland, 3630TX Plus+ A7" (2WD) tractor models. b)
 - Service manual (Part-I, II & III) for "New Holland, 3630TX+ UG A5, 3630TX Plus+ UG c) 4WD A6, 3630TX Plus+ A7 and 3630TX Plus+ UG 4WD A8" tractor models.
- The operator manual may be brought out for the guidance of users and service personnel as 6.7.2 per IS: 8132-1999 incorporating, inter alia, the following:
 - Safe hitch height while using trailer.
 - Recommended ballast masses for different operation. ii)

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 | Randey |
| A. K. UPADHYAY DIRECTOR (I/C) | Au . |

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

| T-1826/2357/2024 | NEW HOLLAND, 3630 TX Plus+ A7 TRACTOR - INITIAL COMMERCIAL TEST |
|------------------|---|
| 1-1020/233772024 | THIS TEST REPORT IS VALID UPTO:28/02/2029 |

7. APPLICANT'S COMMENTS

| Para No. | Our reference | Applicant's comments |
|----------|------------------------------|--|
| 7.1 | 6.4.1, 6.4.3, 6.4.4, & 6.4.5 | 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 | 6.4.6, 6.6 & 6.7.2 | We will study this further, and appropriate action 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 | 16.5 |
| 3. | Power lift and hydraulic pump performance test | 4.3 |
| 4. | Drawbar performance test | 4.4 |
| 5. | Brake performance test | 0.8 |
| 6. | Nominal speed test | 2.8 |
| В. | Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test | 1.6 |
| | TOTAL: | 30.4 |