

Application Reference No. 28/2022-23/107

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



Make of Agricultural Tractor : New Holland
Model : 4710 E2
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)

T-1763/2294/2023	NEW HOLLAND, 4710 E2 TRACTOR - INITIAL COMMERCIAL TEST
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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: August	Test Report No.: T-1763/2294/2023	Year: 2023
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GOVERNMENT OF INDIA
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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:		
	-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)	:	4710 E2
[C]	Type	:	Rear Wheel Drive, Standard Agricultural Tractor.
[C]	Month & year of manufacture	:	11 & 2022
[D]	Country of origin	:	India

1.1.2 Numbers:

[D]	1 st Serial No. or prototype	:	NHN47100ZKL497851
[C]	Serial No.	:	NHN47100ZNL637576

1.2 Engine:

[D]	Manufacturer's address	:	CNH Industrial (India) Pvt. Ltd., Plot No.-3, Udyog Kendra, Greater Noida-201306, Distt. Gautam Budh Nagar, Uttar Pradesh, India.
[C]	Make	:	FPT
[C]	Model	:	8035.05D.942
[C]	Type	:	Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
[C]	Serial No.	:	389491DX

1.2.1 Cylinders:

[C]	Number/disposition	:	Three, vertical, in-line
[D]	Bore/Stroke, (mm)	:	104/115
[D]	Capacity, cm ³	:	2931
[D]	Compression ratio	:	18 ± 0.5 : 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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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.	31.7 (D)	31.1	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	31.7 (D)	30.8	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	Should not be more than 10% of declared value.	255 (D)	256	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	180 (D)	169.8	Yes
e)	Back-up torque, percent	Evaluative	Should be min. 12%	12, Min. (D) 12 (R)	21.5	Yes
f)	Maximum operating temperature, ($^{\circ}$ 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)	117	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)	97	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	2.56 Maximum (R)	0.33	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)	0.18	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.	19.70 (D) --	--	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.	14.00 (D) 13.80 (R) Minimum	15.53	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.	25.36 (D) 24.9 (R) Minimum	27.5	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.	130 (D)	102	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.	17.65 (D) 15.89 (R) Minimum	18.40	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) 7.32 (R) Minimum	16.28	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	20	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)	6.78	Yes
	2)	Hot brake	Evaluative	10	10 (R)	6.93	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	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)	Does not meet the requirement	No		
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (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 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.	Audible warning signal on tractor gets activated when travel speed in reverse gear exceeds 20 kmph.	Yes		

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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="margin: 5px 0;"><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		4710 E2	Yes		
3)	Month & Year of manufacture	Evaluative		11/22	Yes		
4)	Engine number	Evaluative		389491DX	Yes		
5)	Chassis number	Evaluative		NHN47100ZNL6 37576	Yes		
6)	Maximum PTO power, (kW)	Evaluative		31.7	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	No*
(b)	Parts Catalogue	Evaluative		Provided	No*
(c)	Workshop/ Service manual	Evaluative		Provided	No*

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.	Not fitted	Not applicable
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	Not fitted	Not applicable

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

*The tractor model "4710 E2" is mentioned only on the cover page of the Operator's Manual, Service Manual and Parts Catalogue. The specification of tractor model "4710 E2" are not available in the above manuals. Therefore, does not meet the evaluative requirement of IS: 12207-2022.

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

During lifting capacity test at standard frame, the angle of rotation of mast was observed as 6.9 degrees over the full range of lift against the requirement of minimum 10.0 degrees, which does not meet the requirement of IS: 12224 – 1987. This should be looked into for necessary corrective action.

6.4.2 Technical requirement of Power Take-off Shaft:

The dimension ‘a’ of power take-off shaft has been measured as 8.4 mm against the requirement of 7 mm as laid down in IS: 4931 – 1995. Even though this parameter is categorized as ‘Non-Evaluative’, as per IS: 12207-2022, yet for the sake of improvement it would be advisable to look into the matter to make it conforming to the requirement.

6.4.3 Dimension of Three Point Linkage:

The following parameters does not meet the requirements of IS: 4468 (Part-I) – 1997 and needs to be looked into for necessary corrective actions:

- i) Diameter of upper hitch point hole and lower hitch point hole has been measured as 25.83 and 28.78 mm against the requirement of 19.30 to 19.50 mm and 22.40 to 22.65 mm respectively.
- ii) The width of the ball of lower hitch point has been measured as 45.0 mm against the requirement of 34.8 to 35.0 mm.
- iii) Lateral distance from lower hitch point to centre line of tractor has been measured as 435 mm against the requirement 359 mm.

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 23 degrees against the requirement of 3 to 12 degrees.
- ii) Inclination of back rest has been measured as 30 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 540 mm against the requirement of 230 to 460 mm.
- v) Vertical distance of SIP from foot rest has been measured as 605 mm against the requirement of 450 to 520 mm.

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

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 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.

6.4.6 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.

6.5 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 Sheet	As per Operator's manual
a)	Tractor Model	4710 E2	4710 Excel (P. No. 3-7, 6-13 & 9-8)
b)	Ground speed PTO	Not available	Available (P. No. 3-14, 3-15, 6-1, 6-5, 6-6, 6-7, 6-8, 6-9 & 6-10)
c)	Direction of rotation of PTO shaft	Clockwise	Clockwise & anti-clockwise (P. No. 3-14, 3-15, 6-1, 6-5, 6-6, , 6-7, 6-8, 6-9 & 6-10)
d)	Maximum drawbar pull with standard ballast, (kN)	14.0	16.97 (P. No. 6-13)
e)	Maximum drawbar pull with ballast, (kN)	19.7	20.8 (P. No. 6-13)
f)	Coolant water ratio	1:4	3:7 (P. No. 7-7, 9-20) & 1:1 (P. No. 9-20)
g)	Service schedule for transmission oil filter	NA	First change after 50 hours and subsequently after 300 hours of operation. (P. No. 7-2, 7-8, 7-9)
h)	High idle speed of engine, rpm	2450 ± 70	2450 ± 50 (P. No. 9-8)
i)	Coolant recommended	AMBRA AGRIFLU-OT	Extended life OAT & 1:1 (P. No. 9-20)

- ii) The tractor model "4710 E2" is mentioned only on the cover page of the Operator's Manual, Service Manual and Parts Catalogue. The specification of tractor model "4710 E2" 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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6.6 Maintenance / Service Problems:

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

6.7 Recommendation with regard to safety on tractor:

- i) Differential lock has not been provided.
- ii) Colour codes 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.

6.8 Adequacy of Literature supplied with machine:

6.8.1 The following literatures were supplied with the test tractor for reference during the test: -

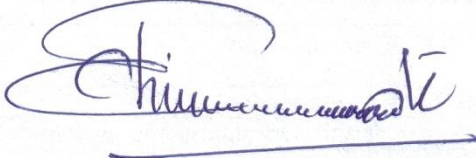

- a) Operator Manual for "New Holland 4710 E2 & 3600-2 E" tractor models.
- b) Parts catalogue for "New Holland 4710 E2" tractor model.
- c) Service manual Part – I, II & III for "New Holland 4710 E2 & 3600-2 E" tractor models.

6.8.2 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. V. CHIMOTE TEST ENGINEER	
A.K. UPADHYAY DIRECTOR(I/C)	

Draft Test Report compiled by **Partha Lodh**, Senior Technical Assistant.

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7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
7.1	6.4.1, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.4.6 & 6.7	Your valuable comments and suggestions for improvements are well 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	6.8.2	We will study this further, and appropriate actions will be taken.
7.3	6.1.8 (a, b & c) & 6.8.1 (a, b & c)	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.
7.4	6.1.8 (a, b & c)	We are providing the updated manuals.
7.5	6.5	We are providing the updated manuals.

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	14.2
3.	Power lift and hydraulic pump performance test	4.2
4.	Drawbar performance test	3.0
5.	Brake performance test	1.0
6.	Nominal speed test	1.1
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	2.3
TOTAL:		25.8