प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1784/2315/2023 INITIAL COMMERCIAL TEST REPORT माह/Month : October, 2023

Application Reference No. 28/2022-23/148

(यह परीक्षण रिपोर्ट 31/10/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/10/2028)



Make of Agricultural Tractor: JOHN DEERE

Model : 5105 V5

Manufactured by : M/s. John Deere India Pvt. Ltd.

Gat No.166 - 167 & 271 - 291,

Off. Pune-Nagar Road, Sanaswadi,

Pune - 412 208



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

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Month: October	Test Report No.: 1-1/84/2315/2023	Year: 2023



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

E-mail: fmti-mp@nic.in

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

Telephone: 07564-299003

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T-1784/2315/2023 THIS TEST REPORT IS VALID UPTO: 31/10/2028 [C] Tractor manufacturer's name and M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, address Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208 [D] Location of tractor assembly M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291, Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208 M/s. John Deere India Pvt. Ltd. Survey No.501, Village-Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) - 455 115 The Manufacturer [C] Submitted for test by (Applicant) [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): 20 -Engine -Transmission 20 [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 Make of tractor JOHN DEERE : 5105 V5 [C] Model (trade name) [C] Type Two Wheel Drive, Rear wheel driven, Standard Agricultural Tractor. [C] Month & year of manufacture 08/23 India Country of origin [D] 1.1.2 Numbers: 1st Serial No. of prototype 1PY5105DEPA025050 [D] [C] Serial No. 1PY5105DCPK026685 1.2 **Engine:** [D] Manufacturer's address : (i) M/s. John Deere India Pvt. Ltd. Gat No.166 - 167 & 271 - 291. Off. Pune-Nagar Road, Sanaswadi, Pune - 412 208 (ii) M/s. John Deere India Pvt. Ltd. Survey No.501, Village-Khatamba Jamgod, Dewas Bhopal Highway, Dewas (Madhya Pradesh) - 455 115 [C] Make John Deere India Pvt. Ltd. 3029DPY93 [C] Model

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

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

SI. No.	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
		DATORY TESTS: ly, 2022).	(As per Ministr	ry's Office Memorandum No. 13-	17/2021-M&T	Г (I&P) da	ted 28 th
6.1.1		Performance:					
a)		mum power	Evaluative	Declared value to be achieved with	25.8	25.3	Yes
,	` ,	r 2 h test, (Natural ent condition)		a tolerance of: ±5% for PTO pow er and or engine pow er >26 kW. ±10% for PTO pow er and or engine ≤ 26 kW.	(D)		
b)		er at rated le speed, (kW)	Non Evaluative	-do-	25.5 (D)	25.3	Yes
c)	Spec consi corre	ific fuel umption sponding to mum power,	Evaluative	Should not be more than 10% of declared value.	272 (D)	259	Yes
d)	Maxii equiv	mum	Non Evaluative	± 8%	144 (D)	139.2	Yes
e)	Back perce	-up torque, ent	Evaluative	Should be min. 12%	Above 12 (D) 12 (R)	20.9	Yes
f)	Maxii	mum operating	temperature, (^c	OC):			
	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.	135 (D)	120	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.	120 (D)	103	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at Max pow er under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.59 Maximum (R)	0.140	Yes
h)	Smok	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)	0.19	Yes

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1	2	3	4	5	6	7
6.1.2	Drawbar performa	nce:				
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 without 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.	11.9 (D) 12.3 (R) Minimum	14.69	Yes
c)	Maximum drawbar power without 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 w eight 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.	20.64 (D) 20.2 (R) Minimum	21.9	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 draw bar test.	120 (D)	81	Yes

^{*}Applicant vide letter no. Nil, dated 13.09.2023 has requested not to conduct the ballasted draw bar performance test & ten-hour draw bar test w hich 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, draw bar performance test under unballasted condition was conducted only.

6.1.3	Po	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.	14.00 (D) 12.60 (R) Minimum	14.74	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.	12.20 (D) 5.95 (R) Minimum	15.07	Yes			
b)	the poi of eac inte	wimum drop in height of the nt of application the force after ch 5 minutes erval for a total ation of 30 iutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm.	50 (D) Maximum	05	Yes			

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1	2	3	4	5	6	7
6.1.4	Brake performance					-
a)	•	•	orce, equal to or less than 600	N on brake	pedal wi	th road
	ballast, (m):		,		p = ====	
	1) Cold brake	Evaluative	10	10 (R)	6.98	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.09	Yes
b)	Whether parking	Evaluative	Yes / No	Yes	Yes	Yes
	brake is effective at					
	a force of 600 N at					
	foot pedal (s) or					
	400 N at hand lever					
6.1.5	OPTIONAL TESTS:					•
	As the applicant ha	as not applied	for any optional tests, there	efore no op	tional tes	sts was
	conducted.	• •	•	•		
6.1.6	Safety features :					
a)	Guards against	Evaluative	Belt drives, pulleys,	Meets	the	Yes
	moving and hot		silencer, hydraulic pipes	requirer	ment	
	parts		[As per IS 12239 (Part2)]			<u> </u>
b)	Lighting	Evaluative	As per CMVR	Confor	ms	Yes
	arrangement					
c)	Seating	Non	Should meet the	Does	not	No
	requirements	Evaluative	requirements of IS: 12343	meet	the	
	(Tractors having		(As amended from time to	require	ment	
	more than 1150		time)			
	mm rear track					
	width)					
d)	Technical	Non	Should meet the	Meets		Yes
	requirements for	Evaluative	requirements of IS: 4931	requirer	nent	
	PTO shaft		(As amended from time to			
			time)			
e)	Dimensions of	Non	Should meet the	Does		No
	three point linkage	Evaluative	requirements of IS: 4468	meet		
			(Part-I) (As amended from	require	nent	
•	Specifications of	Non	time to time) Should meet the	Meets	tho	Yes
f)	Specifications of linkage drawbar	Evaluative	requirements of IS: 12953			1 65
	ili kaye ulawbal	Evaluative	(As amended from time to	requirer	HEHL	
			time)			
g)	Swinging drawbar	Non	Should meet the	Not fit	ted	Not
9)	(wherever fitted)	Evaluative	requirement of IS: 12362	1400 110	iou	appli-
	(Wildiavoi iittoa)	Lvaldativo	(Part 3) (As amended from			cable
			time to time)			Cabic
h)	Audible warning	Evaluative	If tractor travel speed in	Not fit	ted	Not
	signal on tractor		reverse gear exceeds 20			appli-
	organia arranga		kmph, an audible warning			cable
			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.			

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1		2	3	4	5	6	7
6.1.7	Lal	belling of tracto	rs (Provision o	of labelling plate):			
	1)	Make	Evaluative	Should conform to the	Johr	n Deere	Yes
	2)	Model	Evaluative	requirements of CMVR	51	05 V5	Yes
	3)	Month &	Evaluative	along-with declared value of	(08/23	Yes
		Year of		PTO in kW, Specific fuel			
		manufacture		consumption (SFC)			
	4)	Engine	Evaluative	corresponding to maximum	PY30	29D759021	Yes
		number		power in g/kWh and year of			
	5)	Chassis	Evaluative	manufacture in numerical	1PY51	05DCPK02	Yes
		number		form		6685	
	6)	Maximum	Evaluative	MM YY	2	25.8	Yes
		PTO power,		Digit 01-12 in box No. 1 for			
		(kW)		MM will represent the			
	7)	Specific fuel	Evaluative	month and next two digit in		272	Yes
		consumption,		the box No. 2 for YY will			
		(g/kWh)		represent the year of			
				manufacturing.			
610	1:4	oratura (Submis					

6.1.8	Literature (Submis	sion to test age	ency):		
(a)	Operator manual	Evaluative	The printed literature in	Provided	Yes
(b)	Parts Catalogue	Evaluative	booklet form should be	Provided	Yes
(c)	Workshop/	Evaluative	provided as per IS 8132 and	Provided	Yes
	Service manual		should submit along with		
			the test sample.		
6.1.9	Fitment of Roll Ove	er Protective S	tructures (ROPS):		
	For tractor having more than 1150 mm		ROPS should meet the requirement of IS:11821 or	Not fitted	Not applicable
	rear track width		OECD code or equivalent International Standard.		
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	BREAKDOWN	IS / 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 : Conforms agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]

ii) Agricultural tractors - Rear mounted power take-off - Types 1, 2 and 3 (third : Conforms

revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1 Categories : Does not

1, 2, 3 & 4 (fourth revision) [IS:4468(Part-I) – 1997 (Reaffirmed in 2022)] 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 : Does not requirements (first revision):[IS 12239 (Part 1) - 2018]

vii) Tractors and machinery for agriculture and forestry – Technical means for ensuring : Conforms safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) (Reaffirmed Year

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

ix) Tractors and machinery for agriculture and forestry, powered lawn and garden : Conforms 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 Laboratory tests:

6.4.1.1 Drawbar Performance Test:

Applicant vide letter no. Nil, dated 13.09.2023 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 unballasted condition was conducted only.

6.4.1.2 Three Point linkage:

The following parameters does not meet the requirements of IS: 17231:2019 and needs to be looked into for necessary corrective actions:

- i) Diameter of hitch point hole of upper & lower hitch point has been measured as 25.7 and 28.9 mm against the requirement of 19.30 to 19.50 mm and 22.40 to 22.65 mm respectively.
- ii) Width of ball of upper hitch point was observed as 32.0 mm against the requirement of 43.5 to 44.0 mm.
- iii) The leveling adjustment has been measured as 70 mm against the minimum requirement of 100 mm.

6.4.1.3 Operator's seat:

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

- i) Inclination of back rest of operator's seat was observed as 22 degree against the requirement of 10±5 degree.
- 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 centre of accelerator pedal has been measured as 505 mm against the requirement of 230 to 460 mm.

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- iv) Vertical distance from SIP to centre of steering control wheel has been measured as 235 mm against the requirement of 265 to 385 mm.
- iv) Vertical distance of SIP from foot rest has been measured as 575 mm against the requirement of 450 to 520 mm.

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

6.4.1.4 Operator's work place:

Spark arresting device has not been provided in the exhaust system as per the requirement of IS: 12239 (Part-I) -2018. This should be looked into for necessary corrective action.

6.4.1.5 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.	Name & Brand name of coolant, Coolant -water ratio	Ethylene glycol, 1:4	John Deere COOL-GARD II Premix, in a concentration of 50% ethylene glycol. (P. No. 85-6)
	Engine oil capacity,(I)	8.0	6.5 (P. No. 155-3)
b.	Coolant capacity, (I)	9.5	9.8 (P. No. 155-3)
C.	Transmission oil capacity, (I)	34.0	32.0 (P. No. 155-3)
e.	Transmission oil filter change period	First after 1000 hours, subsequently change after 1250 hours	Replace first 100 hours & then subsequently after every 500 hours (P. No. 90-2)
f.	Maximum equivalent crankshaft torque, (N-m)	145.0	156.0 (P. No. 155-3)
g.	Standard PTO speed	540 @ 2070 engine rpm	540@ 2050 engine rpm (P. No. 155-3)
h.	Maximum hydraulic power, (kW)	5.7	6.8 (P. No. 155-3)
i.	Maximum drawbar pull without ballast, (kN)	11.9	14.23(P. No. 155-3)

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:

- 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 hand controls by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- iii) The distance of engine stop control from the engine start control has been measured as 305 mm which does not meet the requirement of maximum 150 mm as laid down in Table 1 of IS: 8133-2021.
- iv) The working clearance between position control lever & RHS mudguard and between high low control lever have been measured as 50 mm and 60 mm respectively against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) 1999.

Above parameters should be looked into for necessary corrective action.

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6.7 Adequacy of Literature supplied with machine:

- 6.7.1 The following literatures were supplied with the test tractor for reference during the test:
 - a) Operator's Manual for "for "John Deere 5036D, 5038D, 5039D, 5039D V3, 5039D V4, 5039D V5, 5042D, 5045D, 5050D, 5050D V8, 5105, 5105 V3,5105 V4, 5105 V5, 5105 4WD V2,5205, and 5005" tractor models.
 - b) Parts Catalogue Part- I, Part-II, for "John Deere 5105 V5" tractor model.
 - c) Workshop/ Service/ Repair Technical Manuals Part-I, Part-II & Part-III for "John Deere 5036D, 5038D, 5039D, 5039D V3, 5039D V4, 5039D V5, 5042D, 5045D, 5050D, 5050D V8, 5105 V3,5105 V4, 5105 V5, 5105 4WD V2,5205, and 5005" tractor models.

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

B.N. DIXIT AGRICULTURAL ENGINEER	B -
R. P. PANDEY SENIOR INSTRUMENTATION ENGINEER	Randey
A. K. UPADHYAY DIRECTOR (VC)	

Draft Test Report compiled by B.N. Dixit, Agricultural Engineer.

7. APPLICANT'S COMMENTS

Para No.	Our reference	Applicants comments
7.1		No specific comment, as such, on recommendations was received from the applicant.

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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	13.30
3.	Power lift and hydraulic pump performance test	3.75
4.	Drawbar performance test	2.63
5.	Brake performance test	1.25
6.	Nominal speed test	1.75
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	1.20
	TOTAL:	23.88