

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच परीक्षण) संख्या / No. : T- 1608/2139/2021  
COMMERCIAL TEST REPORT (First Batch Test) माह / Month : December, 2021

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 31/12/2021 तक वैध है। / THIS TEST REPORT IS VALID UPTO : 31/12/2021)



## JOHN DEERE 5036D TRACTOR



सत्यमेव जयते

भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय

(कृषि, सहकारिता एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(Department of Agriculture, Cooperation & Farmer's Welfare)

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“JOHN DEERE 5036D” tractor had undergone “Initial Commercial Test” at this Institute and Test report No.T-1133/1659/2018 was released in February, 2018 and **Administrative Extension** test report no. T- 1319/1846/2020 released in March, 2020 and T-1468/1995/2020 released in August, 2020. Now, the applicant has submitted an online application, 28/2020-21/50 dated 20.01.2021 for 1<sup>st</sup> batch testing of “JOHN DEERE 5036D” tractor.

All the necessary tests as per table-1 of clause 6.0 of IS: 5994 -1998 (Reaffirmed in 2014) were carried out and test report released as under.

<b>Manufacturer &amp; Location of plant(s)</b>	: M/s. John Deere India Pvt. Ltd. Gat No. 166 - 167 & 271 - 291, Off Pune - Nagar Road, Sanaswadi, Pune– 412 208 (M.S.) : M/s. John Deere India Pvt. Ltd. Survey No. 501, Village – Khatamba Jamgod, Dewas Bhopal Highway, Dewas, (Madhya Pradesh) 455115
<b>Test requested by (applicant)</b>	: The manufacturer
Selected for test by	: The manufacturer
Place of running-in	: At manufacturer’s works
Duration of said running-in (h):	
- Engine	: 12
- Transmission	: 18
<b>Method of Selection</b>	: Due to Covid-19 Pandemic, it was not possible to conduct the random selection. Nor was possible for applicant to facilitate the random selection. As a last resort, applicant requested to allow the direct submission of test sample, which was allowed.

## 1. SPECIFICATIONS

### 1.1 Tractor:

Make	: John Deere
Model	: 5036D
Type	: Four wheeled, Rear wheel driven, General Purpose, Agricultural Tractor.
Month & Year of manufacture	: 02/21
Chassis number	: 1PY5036DVMA008645
Country of Origin	: India

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<u>Previous Sample</u>	<u>Present Sample</u>
<b>13.4.1.2 Drawbar Performance Test:</b> i) During drawbar performance ten hour test, creeping of LHS & RHS rear tyre over the rims was observed as 20 mm & 45 mm respectively.	----

### 13.5 Adequacy of literature:

Following literatures of “JOHN DEERE 5036D” tractor has been supplied for reference during the test:

a) Operator’s manual	a) Operator’s manual
b) Parts catalogue	b) Parts catalogue
c) Workshop manual	c) Workshop manual

## 14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

**14.1** On the basis of tests conducted the performance results have been summarized as evaluative (mandatory) and non-evaluative (not-mandatory) parameter applicable for qualifying Minimum Performance Criteria as per Clause-4 (Table-1) of **IS: 12207-2019** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

S. No.	Characteristic	Category (Evaluative /Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant (D) / Requirements (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
<b>14.1.1</b>	<b>PTO Performance :</b>					
a)	Max. power under 2 h test, (kW ) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power or engine power $>26$ kW, $\pm 10\%$ for PTO power or Engine power $\leq 26$ kW.	23 (D)	21.8	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	23 (D)	21.8	Yes

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1	2	3	4	5	6	7
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% Max.	258 (D)	267	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	146 (D)	128	No
e)	Back-up torque, percent	Evaluative	12 percent, min.	Above 12 (D) 12 (R)	29.0	Yes
f)	Maximum operating temperature(°C)					
	1) Engine oil	Evaluative	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	135 (D)	115	Yes
	2) Coolant (liquid)	Evaluative	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	120 (D)	97	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.67 (R) Maximum	0.57	Yes
h)	Smoke level, (m <sup>-1</sup> )	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hat ridge value (As per CMVR)	3.25 (R)	0.20	Yes

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1	2	3	4	5	6	7
<b>14.1.2</b>	<b>Drawbar performance:</b>					
<b>a)</b>	Maximum drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	17.16 (D) 17.02 (R)	19.98	Yes
<b>b)</b>	Maximum drawbar pull without ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without/ standard ballast	12.01 (D) 11.88 (R)	14.50	Yes
<b>c)</b>	Maximum drawbar power without ballast, or with standard ballast as the case may be, 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.	18.4 (D) 17.4 (R)	17.8	Yes
<b>d)</b>	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company.	110 (D)	83	Yes
<b>14.1.3</b>	<b>Power lift and hydraulic pump performance :</b>					
<b>a)</b>	Maximum lifting capacity throughout the range of lift, (kN):					
1)	At hitch points	Evaluative	±10 percent	14.0 (D)	14.63	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) 5.13 Minimum (R)	12.84	Yes

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1	2	3	4	5	6	7
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 minute, (mm)	Non Evaluative	The observed value should not exceed 50 mm	50 (D)  50 (R) Maximum	20	Yes
<b>14.1.4</b>	<b>Brake performance at 25 kmph:</b>					
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)	7.43	Yes
	2) Hot brake	Evaluative	10	10 (R)	7.75	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s <sup>2</sup> (N)	Evaluative	600	600 (R)	168 to 238	Yes
c)	Whether parking brake is effective at a force of 600 N at foot pedal(s) or 400 N at hand lever, N	Evaluative	Yes / No	Yes (R)	Yes	Yes
<b>14.1.5</b>	<b>Noise measurement :</b>					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	79	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	90	Yes

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1	2	3	4	5	6	7
<b>14.1.6</b>	<b>Amplitude of mechanical vibrations at :</b>					
	1) Left foot rest	Non Evaluative	100 microns (max)	100 (Maximum)	124	<b>No</b>
	2) Right foot rest		-do-		140	<b>No</b>
	3) Seat (with driver seated)		-do-		43	Yes
	4) Steering wheel		do-		91	Yes
<b>14.1.7</b>	<b>Air cleaner oil pull over :</b>					
	Maximum air cleaner oil pull over	Evaluative	0.25 % (max.)	Dry type air cleaner is provided		Not applicable
<b>14.1.8</b>	<b>Haulage requirements :</b>					
<b>a)</b>	<b>Gross mass of the trailers, (tonne):</b>					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	5.0 (D)	5.0	Yes
	2) Four wheel	Non Evaluative		7.0 (D)	7.0	Yes
<b>b)</b>	<b>Distance travelled / litre of fuel consumption, (km/l):</b>					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	4 to 6 (D)	5.59 to 5.91	Yes
	2) Four wheel			4 to 6 (D)	4.87 to 4.92	Yes
<b>c)</b>	<b>Fuel consumption (ml/km/tonne):</b>					
	1) Two wheel	Non Evaluative	As specified by the manufacturer	40 to 45 (D)	33.9 to 35.8	<b>No</b>
	2) Four wheel			40 to 45 (D)	29.0 to 29.4	<b>No</b>

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1	2	3	4	5	6	7	
<b>14.1.9</b>	<b>Wetland cultivation :</b>						
	Sealing for the following assemblies:		Evaluative	The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only.	There should be no ingress of water and / or mud (R)	No ingress of water and / or mud was reported during Initial commercial testing of this tractor model tested vide test report no. report No. T-1133/1659 /2018 released in February, 2018	Yes
	1)	Clutch assembly	-do-				
	2)	Brake housings	-do-				
	3)	Front axle hubs	-do-				
	4)	Engine Oil	-do-				
5)	Transmission Oil	-do-					
<b>14.1.10</b>	<b>Safety features :</b>						
<b>a)</b>	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulics pipes(as per IS-12239 Part 2)	Meet the requirements	Yes		
<b>b)</b>	Lighting arrangement	Evaluative	As per CMVR	Meet the requirements	Yes		
<b>c)</b>	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)	<b>Does not meet the requirements</b>	<b>No</b>		
<b>d)</b>	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meet the requirements	Yes		
<b>e)</b>	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)	Meet the requirements	Yes		
<b>f)</b>	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 (As amended from time to time)	Meet the requirements	Yes		



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1	2	3	4	5	6	7
<b>g)</b>	Specifications of Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements of IS 12362 (Part 3) (As amended from time to time)		Not provided	Not applicable
<b>h)</b>	1) Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 Kmph		(14.87 kmph) Meet the requirements	Yes
	2) Audible warning signal on tractor.	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor be activated, The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer / dealer shall ensure the training on this aspect to operator before the delivery of tractor.		Not applicable	Not applicable
<b>14.1.11</b>	<b>Labelling of tractors (Provision of labelling plate):</b>					
	1) Make	Evaluative	Should conform to the requirements of CMVR along-with declared value of PTO in kW and year of manufacture in numerical MM YY 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		JOHN DEERE	Yes
	2) Model	Evaluative			5036D	Yes
	3) Month & Year of manufacture	Evaluative			02/21	Yes
	4) Engine number	Evaluative			PY302 9D618 929	Yes
	5) Chassis number	Evaluative			1PY5036 DVMA00 8645	Yes
	6) Declaration of maximum PTO power, kW	Evaluative			23	Yes

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1	2	3	4	5	6	7
<b>14.1.12</b>	<b>Discard limit for:</b>					
<b>(a)</b>	Cylinder bore diameter, (mm)	Evaluative	To be specified by Manufacturer	106.62 (D)	106.50 to 106.51	Yes
<b>(b)</b>	Piston to cylinder liner clearance at skirt, (mm)	Non Evaluative		0.32	0.107 to 0.110	Yes
<b>(c)</b>	Piston diameter at skirt, mm	Non Evaluative		106.30	106.40 to 106.41	Yes
<b>(d)</b>	<b>Ring end gap (mm):</b>					
	Top comp. ring.	Evaluative	-do-	0.75	0.30 to 0.40	Yes
	2 <sup>nd</sup> comp. ring.	Evaluative	-do-	2.00	0.65 to 0.70	Yes
	Oil ring.	Evaluative	-do-	0.75	0.35 to 0.40	Yes
<b>(e)</b>	<b>Ring groove clearance (mm):</b>					
	Top comp. ring.	Evaluative	-do-	NA	Tapped	Yes
	2 <sup>nd</sup> comp. ring.	-do-	-do-	0.25	0.058 to 0.059	Yes
	Oil ring.	-do-	-do-	0.92	0.066 to 0.070	Yes
<b>(f)</b>	<b>Clearance of main end bearings, (mm):</b>					
	Diametrical	Evaluative	-do-	0.65	0.084 to 0.087	Yes
	Crank shaft end float	Evaluative	-do-	0.85	0.20	Yes
<b>(g)</b>	<b>Clearance of big end bearings, (mm):</b>					
	Diametrical	Evaluative	-do-	0.65	0.052 to 0.054	Yes
	Axial	Evaluative	-do-	0.85	0.30 to 0.35	Yes
<b>(h)</b>	Clearance between king pin and bush,(mm)	Non Evaluative	-do-	0.80	0.094 to 0.096	Yes
<b>(i)</b>	Clearance between center pin and bush,(mm)	Non Evaluative	-do-	0.80	0.048 to 0.053	Yes

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1	2	3	4	5	6	7
<b>14.1.13</b>	<b>Literature (Submission to test agency):</b>					
<b>(a)</b>	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	Provided	Yes
<b>(b)</b>	Parts Catalogue	Evaluative		Provided	Provided	Yes
<b>(c)</b>	Workshop/ Service manual	Evaluative		Provided	Provided	Yes
<b>14.1.14</b>	Fitment of Roll Over Protective Structure (ROPS): for tractors 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 Provided	Not fitted	Not applicable
<b>14.1.15</b>	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
<b>14.1.16</b>	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR	Provided	Provided	Yes

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<b>14.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS-12207-2019):</b>					
<b>S. No.</b>	<b>Category of Breakdown</b>	<b>Category (Evaluative / Non Evaluative)</b>	<b>Requirements as per IS: 12207-2019</b>	<b>As observed</b>	<b>Whether meets the requirement (Yes/No.)</b>
1.	Critical breakdown	Evaluative	There is no 'critical breakdown' during the course of testing	None	Yes
2.	Major breakdowns	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature.	None	Yes
3.	Minor breakdowns	Evaluative	There are not more than 3 minor defects during the test and the frequency of each is not be more than two.	None	Yes
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed four that is, (1 major + 3 minor) or 4 minor breakdowns.	None	Yes

### **14.3 Salient Observations:**

#### **14.3.1 Laboratory tests:**

##### **14.3.1.1 PTO performance:**

- i) The maximum equivalent crankshaft torque was recorded as 128 **Nm** against the declaration of 146 **Nm**, which is not within the permissible limit as specified in IS: 12207-2019. This calls for necessary corrective action.

##### **14.3.1.2 Mechanical Vibration:**

The amplitude of mechanical vibration on various assemblies marked as (\*) in **Chapter - 8** of this test report is on higher side. This calls for dampening down of vibrations especially on steering control wheel to improve the operational comfort and service life of components.

##### **14.3.1.3 Three point linkage:**

All the dimensions of three point linkage do not conform to the requirement of a particular category (Cat. I or Cat. II), in toto, of IS: 4468-1997 (Part I). This should be looked into for corrective action.

##### **14.3.1.4 Operator's Seat**

- i) Vertical distance of centre of brake pedal from Seat Index Point does not meet the requirement of the IS: 12343 -1998 (Re-affirmed in 2014).

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- ii) The Longitudinal distance from centre of differential lock pedal to Seat Index Point does not meet the requirement of the IS: 12343 - 1998 (Re-affirmed in 2014).
- iii) The Longitudinal distance of centre of steering control wheel to Seat Index Point does not meet the requirement of the IS: 12343 - 1998 (Re-affirmed in 2014).

#### **14.4 Recommendation with regard to safety on tractor:**

The following requirements, inter alia, may be considered for incorporation on the tractor:

- i) The direction of motion of hand operated engine speed control lever (throttle) should be as per requirement of the relevant code.
- ii) Provision of spark arresting device in exhaust system.
- iii) Engine revolution gauge identifiable with color codes as per the relevant code.
- iv) Working clearance between the mudguard and range selection lever is less than the minimum requirement. This calls for corrective action.

#### **14.5 Adequacy of Literature supplied with machine:**

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




- i) Operator's Manual (For 5036D, 5038D, 5039D, 5042D V3, 5045D V2, 5045D 4WD V2, 5050D, 5050D V1, 5105, 5205 & 5005 tractor models).
- ii) Workshop/repair Technical manual Part 1, 2 & 3 (For 5036D, 5038D, 5039D, 5042D, 5045D, 5050D, 5050D V8, 5105, 5105 4WD V2, 5205 & 5005 tractor models).
- iii) Parts Catalogue (For 5036D and 5036D V2 tractor models).

**14.5.2** The literatures submitted by the applicant are found adequate as per IS: 8133-1999 (Reaffirmed in 2019), except following:

- i) Image quality of photographs in Workshop/repair Technical manuals may be improved.

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**TESTING AUTHORITY:**

C.V. CHIMOTE TEST ENGINEER	
Y.K.RAO SENIOR AGRICULTURAL ENGINEER	
P. K. PANDEY DIRECTOR	

Draft test report is compiled by: Nitesh Kumar Verma, Agricultural Engineer.

**15. APPLICANT'S COMMENTS**

Para No.	Our Reference	Applicant's comments
15.1	14.3.1.2	Your valuable comments and suggestion for improvement are well taken. Under our policy of continuous product improvement these aspects are further being looked into and will try to eliminate these deviation soon wherever necessary.

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**ANNEXURE- I**

**TRACTOR RUN HOURS DURING TEST**

<b>A.</b>	<b>LABORATORY AND TRACK TESTS</b>	<b>HOURS</b>
1.	Running-in	-
2.	PTO performance test	13.52
3.	Drawbar performance test	18.45
4.	Power lift and hydraulic pump performance test	3.75
5.	Brake test	2.25
6.	Noise measurement	1.50
7.	Mechanical vibration test	1.00
8.	Nominal speed test	0.66
<b>B.</b>	<b>HAULAGE TEST</b>	5.70
<b>C.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test.	6.57
<b>TOTAL:</b>		<b>53.40</b>