

व्यावसायिक परीक्षण रिपोर्ट ( प्रथम बैच परीक्षण)  
COMMERCIAL TEST REPORT (1<sup>st</sup> Batch Test)

संख्या/No. : T-1625/2156/2022  
माह/Month : February,2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 28/02/2027 तक वैध है / THIS TEST REPORT IS VALID UPTO 28/02/2027)



## EICHER 188 TRACTOR



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, CO-OPERATION & FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

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### 3. RUNNING-IN

As per the recommendation of the applicant, running-in was conducted for a duration of 53.0 hours consisting of engine running-in & transmission running-in prior to start of test.

- 3.1 Engine running -in** : Engine running-in was conducted for duration of 21 hours consisting of 3 cycles, each of 7 hours duration at the recommended engine speed & load.
- 3.2 Transmission running-in** : Transmission running-in was conducted for a duration of 2 hours in each gear from L1 to H4 (2- cycles for each gear). Total transmission running-in was performed for 32 hours with a recommended gross trailer load of 1.0 tonnes on two-wheel trailer.

### 4. SPECIFICATION

- 4.1 Tractor:**
- Make : Eicher
  - Model : Eicher 188
  - Brand Name : **None**
  - Variants, if any : **None**
  - Type : Rear wheel drive, standard agricultural tractor
  - Month & Year of manufacture : 07 & 21
  - Chassis number : 930711478316
  - Country of origin : India
- 4.2 Engine:**
- Make : Eicher
  - Model : 182E15
  - Type : Four stroke, naturally aspirated, air cooled, direct injection, diesel engine
  - Serial number : 530725618322
  - Engine speed (Manufacturer's recommended production setting), (rpm) :**
    - Maximum speed at no load : 2590 to 2690
    - Low idle speed : 800 to 1000
    - Speed at maximum torque : 1400 to 1800
  - Rated speed, (rpm):**
    - For PTO use : 2400
    - For drawbar use : 2400
- 4.3 Cylinder & Cylinder Head:**
- Number : One
  - Disposition : Vertical, inline
  - Bore/stroke, (mm) : 100/105
  - Capacity as specified by the applicant, (cc) : 825
  - Compression ratio, (apa) : 18.0 : 1
  - Type of cylinder head : Mono-block
  - Type of cylinder liners : Dry, replaceable
  - Type of combustion chamber : Re-entrant
  - Arrangement of valves : Overhead, inline

	<b>Valve clearance (cold):</b>	
	- Inlet valve, (mm)	: 0.20
	- Exhaust valve, (mm)	: 0.20
<b>4.4</b>	<b>Fuel System:</b>	
	Type of fuel feed system	: Gravity and force feed
<b>4.4.1</b>	<b>Fuel tank:</b>	
	Capacity, (l)	: 29.0
	Location	: Above flywheel housing
	Provision for draining of sediments/ water	: Provided
	Material of fuel tank	: Metallic
<b>4.4.2</b>	<b>Water Separator:</b>	<b>Not provided</b>
<b>4.4.3</b>	<b>Fuel feed pump:</b>	
	Make	: Bosch, India (apa)
	Model/Group combination No.	: FP/KS 22 AD 67, F002 A50 025
	Type	: Plunger
	Provision of sediment bowl	: Provided
	Method of drive	: Through engine camshaft
<b>4.4.4</b>	<b>Fuel filters:</b>	
	Make	: Bosch, India
	Model/Group combination No.	: F 002 H20 108
	Number	: One (01)
	Type of elements	: Paper
	Capacity of final stage filter, (l)	: 0.40
<b>4.4.5</b>	<b>Fuel injection pump:</b>	
	Make	: Bosch, India
	Model/Group combination No.	: F002 F30 025
	Type	: Plunger
	Serial number	: Not provided
	Method of drive	: Through camshaft of engine
<b>4.4.6</b>	<b>Fuel injectors:</b>	
	Make	: Bosch, India
	Holder Number	: 0432 1933 86
	Nozzle Number	: DSLA 148P 1516
	Type	: Multi hole (six holes)
	Manufacturer's production pressure setting, (MPa)	: 24 + 0.8
	Injection timing	: 10 ± 1 degree before TDC
	Firing order	: 1
<b>4.4.7</b>	<b>Governor:</b>	
	Make	: TMTL (apa)
	Model/Group combination No.	: Not provided
	Type	: Mechanical, centrifugal, variable speed
	Rated engine speed, (rpm)	: 2400
	Governed range of engine speed (rpm)	: 800 to 2690
<b>4.5</b>	<b>Air Intake system:</b>	
<b>4.5.1</b>	<b>Pre-cleaner:</b>	
	Make	: Eicher (apa)
	Type	: Centrifugal with transparent dust collector
	Location	: On the top of air cleaner inlet tube, out side the bonnet.

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**16.4 Salient Observations:**

**16.4.1 Laboratory test:**

	<u>Previous Sample</u>	<u>Present Sample</u>
<b>16.4.1.1 PTO Performance Test:</b>		
i)	The maximum PTO power was recorded as 9.2 kW against the declaration of 8.83 kW which meets the requirement of IS: 12207-2014 with regard to tolerance limit.	i) The maximum PTO power was recorded as 8.7 kW against the declaration of 8.83 kW, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
ii)	The specific fuel consumption corresponding to maximum power was measured as 271 g/kWh against the declaration of 295g/kWh, which is within the tolerance limit of IS: 12207-2014.	ii) The specific fuel consumption corresponding to maximum power was recorded as 279 g/kWh against the declaration of 295 g/kWh, which is within the tolerance limit of IS: 12207-2019.
iii)	The backup torque is 25.0%.	iii) The backup torque is 21.7 %.

**16.5 Adequacy of literature:**

Following literatures has been supplied with the tractor for reference during the test.

a) Operator's manual	a) Operator's manual
b) Service manual	b) Service manual
c) Spare part's catalogue	c) Spare part's catalogue

**17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS**

**17.1** 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: 12207-2019 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: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
<b>17.1.1</b>	<b>PTO Performance:</b>					
<b>a)</b>	Maximum power under 2 h test, (kW) (Natural ambient 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.	8.83	8.7	Yes
<b>b)</b>	Power at rated engine speed, (kW)	Non-Evaluative	-do-	8.83	8.7	Yes
<b>c)</b>	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	295	278	Yes
<b>d)</b>	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	± 8%	40(D)	42.0	Yes
<b>e)</b>	Back-up torque, percent	Evaluative	12 percent	12(D) 12(R) min	21.7	Yes

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1	2	3	4	5	6	7	
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.	155 (D)	138	Yes
	2)	Liner wall	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.	240 (D)	208	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions.	1% of SFC	1.38	Yes
					2.76 (R)		
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 Hatridge value ( <b>As per CMVR</b> ).	3.25 per meter max. (R)	0.15 per meter	Yes	
<b>17.1.2 Drawbar performance:</b>							
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70% of static mass of tractor with ballast.	Ballasting not recommended by the manufacturer		Not applicable	
b)	Max. drawbar pull with unballasted as the case may be corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	5.48 (D)	6.69	Yes	
				5.53 (R) min.			
c)	Maximum drawbar power with unballast, (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.	7.1 (D)	8.1	Yes	
				6.5 (R) min.			
d)	For tractors fitted with air conditioned /heated cabin: Maximum drawbar power without ballast, or with standard ballast as the case may be, kW	Evaluative	Minimum 70 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg	Not fitted	Not applicable	Not applicable	
e)	Maximum transmission oil temperature (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	115 (D)	61	Yes	

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1	2	3	4	5	6	7	
<b>17.1.3</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	Tolerance of $\pm 10\%$	6.95 (D)	6.70	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.	4.41 (D) 2.08 (R) min.	5.0	Yes
<b>b)</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) max.	10	Yes	
<b>17.1.4</b>	<b>Brake performance at 25 kmph:</b>						
<b>a)</b>	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with standard ballast, (m):						
	1)	Cold brake	Evaluative	10	10 (R)	5.6	Yes
	2)	Hot brake	Evaluative	10	10 (R)	5.9	Yes
<b>b)</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) max.	125 to 155	Yes	
<b>c)</b>	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	435	Yes	
<b>17.1.5</b>	<b>Noise measurement:</b>						
<b>a)</b>	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	88 dB (A) for > 1.5 tonne GVW and 85 dB (A) for < 1.5 tonne GVW (as per CMVR)	88 (R)	83	Yes	
<b>b)</b>	Maximum noise at operator's ear level dB(A)	Evaluative	96 (as per CMVR)	96 (R)	93	Yes	
<b>17.1.6</b>	<b>Amplitude of mechanical vibrations at:</b>						
	1)	Left foot rest	Non-Evaluative	100 microns (max.)	100 (R)	202	<b>No</b>
	2)	Right foot rest				180	<b>No</b>
	3)	Seat (with driver seated)				211	<b>No</b>
	4)	Steering wheel				164	<b>No</b>
<b>17.1.7</b>	<b>Air cleaner Oil Pull-Over:</b>						
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25% (max.)	0.10		Yes	
<b>17.1.8</b>	<b>Haulage requirements:</b>						
<b>a)</b>	Gross mass of the trailers, (tonnes):						
	Two wheel	Non-Evaluative	--	1.5 (D)	1.5	Yes	
<b>b)</b>	Distance travelled / liter of fuel consumption, (km/l):						
	Two wheel	Non-Evaluative	--	9 to 11	10.33 to 13.34	<b>No</b>	
<b>c)</b>	Fuel consumption (ml/km/tonne):						
	Two wheel	Non-Evaluative	--	60.6 to 74.07 (D)	49.97 to 64.48	<b>No</b>	

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1	2	3	4	5	6	7
<b>17.1.9</b>	<b>Wetland cultivation (Puddling Operation):</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)	The manufacturer has recommended that the tractor is not suitable for wet land cultivation	Not applicable
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine oil	-do-				
	5) Transmission oil	-do-				
<b>17.1.10</b>	<b>Safety features:</b>					
<b>a)</b>	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part-2))	Meets the requirement	Yes	
<b>b)</b>	Lighting arrangement	Evaluative	As per CMVR	Meets the requirement	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)	Not applicable as the rear track width of the tractor is less than 1150 mm	Not applicable	
<b>d)</b>	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requirement	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)	Does not Meet the requirement	<b>No</b>	
<b>f)</b>	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement	Yes	
<b>g)</b>	Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirement 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	6.49 kmph Meets the requirement	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 shall 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 provided	Not applicable	

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1	2	3	4	5	6	7
<b>17.1.11</b>	<b>Labeling of tractors (Provision of labeling plate):</b>					
1)	Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. MM YY Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of Manufacturing.	EICHER	Yes	
2)	Model	Evaluative		Eicher 188	Yes	
3)	Month & Year of manufacture	Evaluative		07 & 21	Yes	
4)	Engine number	Evaluative		530725618322	Yes	
5)	Chassis number	Evaluative		930711478316	Yes	
6)	Maximum PTO power, (kW)	Evaluative		8.83	Yes	
7)	Specific fuel consumption, (g/kwh)	Evaluative		295	Yes	
<b>17.1.12</b>	<b>Discard limit for:</b>					
<b>(a)</b>	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	100.2	100.001 to 100.008	Yes
<b>(b)</b>	Piston & cylinder liner clearance at skirt, (mm)	Non-Evaluative		0.339	0.136	Yes
<b>(c)</b>	Piston diameter at skirt, mm	Non-Evaluative		99.6	99.872	Yes
<b>(d)</b>	<b>Ring end gap (mm):</b>					
-	Top comp. ring.	Evaluative	-do-	1.5	0.20 to 0.30	Yes
-	2 <sup>nd</sup> comp. ring.		-do-	1.5	0.90 to 0.95	Yes
-	Oil ring.		-do-	2.0	0.3	Yes
<b>(e)</b>	<b>Ring groove clearance (mm):</b>					
-	Top comp. ring.	Evaluative	--Tapped rings --			--
-	2 <sup>nd</sup> comp. ring.		-do-	0.20	0.072	Yes
-	Oil ring.		-do-	0.15	0.050	Yes
<b>(f)</b>	<b>Clearance of main bearings (mm):</b>					
-	Diametrical clearance	Evaluative	-do-	0.40	0.043 to 0.095	Yes
-	Crankshaft end float	Evaluative		0.90	0.35	Yes
<b>(g)</b>	<b>Clearance of big end bearings, (mm):</b>					
-	Diametrical	Evaluative	-do-	0.40	0.070 to 0.085	Yes
-	Axial	Evaluative	-do-	1.0	0.30	Yes
<b>(h)</b>	Clearance between king pin and bush, (mm)	Non-Evaluative	-do-	0.3	0.112 to 0.163	Yes
<b>(i)</b>	Clearance between centre pin and bush, (mm)	Non-Evaluative	-do-	0.5	0.013 to 0.132	Yes
<b>17.1.13</b>	<b>Literature (Submission to test agency)</b>					
<b>(a)</b>	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes
<b>(b)</b>	Parts Catalogue	Evaluative		Provided	Provided	Yes
<b>(c)</b>	Workshop/ Service manual	Evaluative		Provided	Provided	Yes
<b>17.1.14</b>	<b>Fitment of Roll Over Protective Structures (ROPS):</b>					
	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	



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1	2	3	4	5	6	7
17.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		Provided	Yes
17.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Not Provided	Not applicable

<b>17.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):</b>					
S. No.	Category of breakdowns	Category (Evaluative / Non-Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirements (Yes/No.)
1.	Critical	Evaluative	No critical breakdown	None	Yes
2.	Major	Evaluative	Not more than one and neither of them should be repetitive in nature	None	Yes
3.	Minor	Evaluative	Not more than three and frequency of each should 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

**17.3 Salient Observations:**

**17.3.1 Laboratory tests:**

**17.3.1.1 Mechanical Vibration:**

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

**17.3.1.2 Haulage test:**

- i) Distance travelled / liter of fuel consumption with two-wheel trailer was recorded 10.33 to 13.34 km/l against the declaration of 9.0 to 11.0 km/l. This should be looked into for necessary corrective action.
- ii) The fuel consumption in ml/km/tonne with two wheel trailer was recorded 49.97 to 64.48 against the declaration of 60.60 to 74.07 ml/km/tonne. This should be looked into for necessary corrective action.

**17.4 Maintenance / Service Problems:**

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

**17.5 Recommendation with regard to safety on tractor:**

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

- i) Provision for spark arresting device should be provided as IS: 12239 (Part-I)-2018.
- ii) Provision of master shield has should be provided as IS: 12239 (Part-II) (Reaffirmed in 2019).
- iii) Fuel shut-off knob does not remain in "STOP" position as per the requirement of IS: 8133 -1983 (Reaffirmed in January, 2019).

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- iv) Safety switch to start the engine has not been provided as per IS: 8133-1983 (Reaffirmed in 2019).
- v) Hand holds should be provided for easy mounting and dismounting from the tractor.

**17.6 Adequacy of Literature supplied with machine:**



**17.6.1** The supplied literature was found adequate as per IS: 8132-1999 (Reaffirmed in 2019).

- a) Operator's manual for Eicher – 188 & 188 4WD tractor model
- b) Parts catalogue for Eicher - 188 & 188 4WD tractor model
- c) Service manual for Eicher - 188 & 188 4WD tractor model

**17.6.2** The operator's manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 incorporating, inter alia, the following:

- i) Steering oil grade & change period.

**TESTING AUTHORITY:**

C.V. CHIMOTE TEST ENGINEER	
P.K. PANDEY DIRECTOR	

Draft test report compiled by C.S. Raghuwanshi, Agricultural Engineer.

**18. APPLICANT'S COMMENTS**

Para no.	Our reference	Applicant comments
18.1	17.5 (iii), (iv)& (v)	Observations will be studied & necessary action will be initiated.
18.2	17.6.2 (i)	

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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	53.0
2.	PTO performance test	12.4
3.	Drawbar performance test	15.1
4.	Power lift and hydraulic pump performance test	1.5
5.	Brake test	1.0
6.	Noise measurement	1.5
7.	Air cleaner oil-pull over test	3.5
8.	Mechanical vibration test	0.8
9.	Nominal speed test	0.5
<b>B.</b>	<b>HAULAGE TEST</b>	7.1
<b>C.</b>	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.5
	<b>TOTAL:</b>	<b>102.9</b>