

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच परीक्षण)

संख्या/No. : T-1669/2200/2022

COMMERCIAL TEST REPORT (First Batch Test)

माह/Month : July, 2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 31/07/2027 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/07/2027)



GROMAX, TRAKSTAR 545 TRACTOR



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)

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3. SPECIFICATIONS

- 3.1 Tractor:**
- Make : Gromax
 Model : Trakstar 545
 Brand Name : Trakstar
 Type : Rear Wheel Drive, Standard Agricultural Tractor.
 Month & year of manufacture : 12/21
 Chassis number : M9KATADAAMVJ03073
 Country of origin : India
- 3.2 Engine:**
- Manufacturer's address : M/s. Gromax Agri Equipment Limited,
 Near Vishwamitri Railway Over Bridge,
 Vishwamitri, Vadodara – 390011 (Gujarat)
- Make : Mahindra
 Model : GTS3045NA3A
 Type : Four strokes, liquid cooled, direct injection,
 naturally aspirated, compression ignition,
 diesel engine.
 Serial number : NMG6CCJ0059
 Country of origin : India
- 3.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
- Maximum speed at no load : 2325 to 2525
 - Low idle speed : 750 to 850
 - Speed at maximum torque : 1200 to 1500
- Rated speed, (rpm):**
- For PTO use : 2200
 - For drawbar use : 2200
- 3.3 Cylinder & Cylinder Head:**
- Number : Four
 Disposition : Vertical, Inline
 Bore/stroke, (mm) : 88.9/120
 Capacity as specified by the applicant, (cc) : 2979 (apa)
 Compression ratio : 21.3 (± 1) : 1 (apa)
 Type of cylinder head : Monoblock
 Type of cylinder liners : Wet, replaceable
 Type of combustion chamber : Re-entrant bowl cavity on piston head
 Arrangement of valves : Overhead, inline
- Valve clearance (cold):**
- Inlet valve, (mm) : 0.3 to 0.4
 - Exhaust valve, (mm) : 0.4 to 0.5
- 3.4 Fuel System:**
- Type of fuel feed system : Gravity and force feed
- 3.4.1 Fuel tank:**
- Capacity, (l) : 60.5
 Location : Above clutch housing
 Provision for draining of sediments/
 water : Provided
 Material of fuel tank : Metallic

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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
17.1.1	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.	29.0 (D)	29.5	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	29.0 (D)	29.5	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	258 (D)	256	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	173 (D)	169	Yes
e)	Back-up torque, percent	Evaluative	12 percent	33.0 (D) 12.0 (R)	32.1	Yes
f)	Maximum operating temperature, ($^{\circ}\text{C}$)					
	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.	130 (D)	106	Yes
	2) Coolant	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.	118 (D)	96	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	2.61 Maximum (R)	0.183	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).	3.25 Maximum (R)	0.36	Yes

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1	2	3	4	5	6	7	
17.1.2	Drawbar performance :						
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	16.80 (D) 17.92 Minimum (R)	18.05	Yes	
b)	Max. drawbar pull without ballast 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.	12.04 (D) 12.77 (R) Minimum	13.06	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 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.	23.2 (D) 23.6 (R) Minimum	24.5	Yes	
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	110 (D)	80	Yes	
17.1.3	Power lift and hydraulic pump performance :						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of ± 10%	15.90 (D)	14.35	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.	6.82 (D) 6.94 (R) Minimum	11.30	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	25.0	Yes

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1	2	3	4	5	6	7	
17.1.4	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)	6.97	Yes
	2)	Hot brake	Evaluative	10	10 (R)	7.39	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² , (N)	Evaluative	600	600 (R) Maximum	264 to 351	Yes	
c)	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	
17.1.5	Noise measurement :						
a)	Maximum ambient noise emitted by the tractor, dB(A)	Evaluative	As per CMVR	88 (R)	83	Yes	
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	As per CMVR	96 (R)	94	Yes	
17.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non Evaluative	100 microns (max.)	100 (R)	94	Yes
	2)	Right foot rest				136	No
	3)	Seat (with driver seated)				69	Yes
	4)	Steering wheel				238	No
17.1.7	Air cleaner:						
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	Dry type air cleaner is provided	Not applicable		
17.1.8	Haulage requirements :						
a)	Gross mass of the trailers, (tones):						
	Two wheel	Non Evaluative	As specified by the manufac- turer	5.0 (D)	5.0	Yes	
	Four wheel	Non Evaluative		5.0 (D)	5.0	Yes	
b)	Distance travelled / liter of fuel consumption, (km/l):						
	Two wheel	Non Evaluative	As specified by the manufac- turer	6.0 to 7.0 (D)	5.17 to 5.37	No	
	Four wheel	Non Evaluative		6.0 to 7.0 (D)	5.74 to 5.83	No	
c)	Fuel consumption, (ml/km/tonne):						
	Two wheel	Non Evaluative	As specified by the manufac- turer	35 to 45 (D)	37.2 to 38.7	Yes	
	Four wheel	Non Evaluative		35 to 45 (D)	34.3 to 34.8	No	

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1	2	3	4	5	6	7	
17.1.9	Wetland cultivation :						
	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 (Repeat test) of this tractor model tested vide report no. T-1210/1737/2019 released in January, 2019	Yes
	1)	Clutch assembly	-do-				
	2)	Brake housings	-do-				
	3)	Front axle hubs	-do-				
	4)	Engine Oil	-do-				
5)	Transmission Oil	-do-					
17.1.10	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	Meets the requirement	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	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requirement	Yes		
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	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement	Yes		
g)	Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)	Not provided	Not applicable		
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph	11.81 (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 fitted	Not applicable	

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1	2	3	4	5	6	7		
17.1.11	Labelling of tractors (Provision of labelling plate):							
	1)	Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. <table border="1" style="margin-left: 20px;"><tr><td>MM</td><td>YY</td></tr></table> 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.	MM	YY	Gromax	Yes
	MM	YY						
	2)	Model	Evaluative		Trakstar 545	Yes		
	3)	Month & Year of manufacture	Evaluative		12/21	Yes		
	4)	Engine number	Evaluative		NMG6CCJ0059	Yes		
	5)	Chassis number	Evaluative		M9KATADAAMVJ030 73	Yes		
6)	Maximum PTO power, (kW)	Evaluative	29.0		Yes			
17.1.12	Discard limit for:							
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	89.13	88.905 to 88.931	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.20	0.097 to 0.112	Yes		
(c)	Piston diameter at skirt, (mm)	Non Evaluative		88.150	88.816 to 88.823	Yes		
d)	Ring end gap (mm):							
	-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	2.50	0.25 to 0.30	Yes	
	-	2 nd comp. ring.			2.50	0.50 to 0.55	Yes	
	-	Oil ring.			2.00	0.25 to 0.30	Yes	
(e)	Ring groove clearance (mm):							
-	Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.30	Tapered	Yes		
-	2 nd comp. ring.			0.30	0.080 to 0.086	Yes		
-	Oil ring.			0.20	0.035 to 0.044	Yes		
f)	Clearance of main bearings (mm):							
	-	Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	0.071 to 0.114	Yes	
	-	Crankshaft end float	Evaluative		0.60	0.18	Yes	

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1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.20	0.030 to 0.053	Yes
	-	Axial	Evaluative	-do-	0.75	0.20 to 0.25	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	0.30	0.112 to 0.193	Yes	
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.30	0.200 to 0.224	Yes	
17.1.13	Literature (Submission to test agency)						
(a)	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(b)	Parts Catalogue	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(c)	Workshop/ Service manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
17.1.14	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:1182 or OECD code or equivalent International Standard		Not fitted	Not applicable	
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		Provided	Yes	
17.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):						
Sl. No.	Category of break-downs	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 two and neither of them should be repetitive in nature	None	Yes		
3.	Minor	Evaluative	Not more than five 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 five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes		

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17.3 Salient Observations:

17.3.1 Laboratory tests:

17.3.1.1 Drawbar performance test:

- i) During drawbar performance test at 75% pull of maximum power, the LHS rear wheel tube got punctured due to excessive creeping of 60 mm of tyre over the rim. Thereafter, on the request of the applicant, the LHS tube was replaced with new one of same specification.
- ii) During drawbar performance test at the pull corresponding to 15% wheel slip, the RHS rear wheel tube got punctured due to excessive creeping of 75 mm of tyre over the rim. Thereafter, on the request of the applicant, the RHS tube was replaced with new one of same specification.

This observation had also found during Initial Commercial Testing of the tractor model and reported vide Test Report No. T-1210/1737/2019, but no improvement have been made in this regard so far.

17.3.1.2 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies marked as (*) in Chapter – 10 of this test report is on higher side. This calls for dampening down of vibrations especially on RHS foot rest & steering control wheel to improve the operational comfort and service life of components.

This observation had also found during Initial Commercial Testing of the tractor model and reported vide Test Report No. T-1210/1737/2019, but no improvement have been made in this regard so far.

17.3.1.3 Specifications of three point linkage:

Lateral distance from lower hitch point to centre line of tractor **was observed as 365 mm** against the requirement of 359 mm. **This observation of three point linkage was not found conformed vide Test Report No. T-1210/1737/2019, but no improvement have been made in this regard so far.**

17.3.2 Haulage performance test:

During haulage test, distance travelled / liter of fuel consumption was observed as 5.17 to 5.37 km/l and 5.74 to 5.83 km/l for two wheel and four wheel trailer respectively against the declaration of 6.0 to 7.0 km/l.

This calls 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) Safety starting switch should be provided as per the requirement of IS: 8133-2021, to avoid accidental starting of engine.
- ii) Vertical distance from seat index point to the centre of clutch pedal has been measured as 350 mm against the requirement of 380 to 620 mm.
- iii) Longitudinal distance from seat index point to the centre of steering control wheel has been measured as 660 mm against the requirement of 425 to 525 mm.
- iv) Fuel shut-off knob should be remained in "STOP" position without application of sustainable manual effort.
- v) Vertical retainers at both sides of clutch pedal should be provided as per IS: 12239 (Part-1) – 2018.
- vi) Vertical retainers at both sides of brake pedal should be provided as per IS: 12239 (Part-1) – 2018.

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- vii) Spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-2)-1999 (Re-affirmed in January, 2019).
- viii) The working clearance between draft control lever position and mud guard was measured as 40 mm against the minimum requirement 70 mm.
- ix) Grade and frequency of changing the lubricants has not been provided
- x) In engine revolution gauge red zone has not been provided for caution as per the requirement of IS:6283 (Part 1 & 2)-1998.
- xi) Master shield of PTO shaft should be provided as per the requirement of IS: 4931-1995 (Re-affirmed in January, 2019).
- xii) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table -5 of IS: 8133-2021.
- xiii) 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.

The recommendations at serial no. (i), (ii), (iii), (iv), (v), (vii), (viii), (x) were also made in the previous Test Report No. T-1210/1737/2019 (January, 2019) but no improvement have been made in this regard so far.

17.6 Adequacy of Literature supplied with machine:

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



- a) Operator Manual for Gromax, "Trakstar 545, Trakstar 531, Trakstar 536, Trakstar 540 & Trakstar 550" tractor models.
- b) Parts catalogue for Gromax, "Trakstar 545, Trakstar 531, Trakstar 536, Trakstar 540 & Trakstar 550, Trakstar 545DC & Trakstar 550DC" tractor models.
- c) Service manual for Gromax, "Trakstar 545, Trakstar 531, Trakstar 536, Trakstar 540 & Trakstar 550" tractor models.

17.6.2 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) Fuel saving tips.
- ii) Safe hitch height while using Four wheel trailer.
- iii) The oil change period of the steering gear box has not been provided.
- iv) The lubrication oil change period for the engine has been specified as "First change after 100 hours and subsequently after every 350 hours of operation" while the in the technical specification it is mentioned as "First change after 250 hours and subsequently after every 300 hours of operation".
- v) The lubrication oil change period for the transmission has been specified as "First change after 1150 hours of operation and subsequently after every 1050 hours of operation." while the in the technical specification it is mentioned as "First change after 1000 hours and subsequently after every 1000 hours of operation".
- vi) Model name of the tractor on cover page has not been specified.
- vii) Two Bottom Disc plough is recommended as matching implement in the manual while the same has been specified as Three Bottom in the technical specification.

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TESTING AUTHORITY:

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

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

18. Applicant's comments

Para no.	Our reference	Applicant's comments
18.1	17.3.1.2, 17.3.1.3, 17.3.2, 17.5 & 17.6.2	Observation will be studied and necessary action will be incorporated.

ANNEXURE-I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

Sl. No.	Item	Trailer	Trailer
1.	Make	Kisan Engineering Works, MIDC, Awadhan Dhule, (M.S.)	
2.	Model	Kisan 1062	Not available
3.	Type of trailer	Semi - Trailer	Semi - Trailer
4.	Number of axles	Single	Double
5.	Un laden Weight of Trailer, kg	1670	2800
6.	Fully laden Weight of Trailer, Tons (Kg)	4000	5500
7.	Overall dimensions of Trailer, (mm):		
	Overall Width	1870	2140
	Overall Length	4180	5785
	Overall Height	2175	2110
	Wheel Base	Not applicable	2835
	Wheel Track	1600	1740(Front) & 1765(Rear)
8.	Dimension of fitted Platform, (mm):		
	Length	3040	4225
	Width	1830	2135
	Height from ground	1190	1305
9.	Brakes of Trailer	Not Provided	Not Provided