

व्यावसायिक परीक्षण रिपोर्ट (द्वितीय बैच परीक्षण)

COMMERCIAL TEST REPORT (Second Batch Test)

संख्या/No. : T-1607/2138/2021

माह/Month : November, 2021

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 30/11/2026 तक वैध है।/ THIS TEST REPORT IS VALID UPTO 30/11/2026)



**INTERNATIONAL TRACTORS LIMITED,
SONALIKA INTERNATIONAL DI 740 SUPER CM SERIES 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, Cooperation & Farmers Welfare)

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The “International Tractors Limited, Sonalika International DI 740 Super CM Series Tractor” tractor had undergone “Initial Commercial Test bearing test report no. T-603/1106/2007 was released in November, 2007. Subsequently first batch testing was conducted & first batch test report No. T-896/1411/2013 was released in December, 2013 & Technical extension test report No. T-1483/2010/2020 was released in October, 2020. Now, the applicant has submitted online application No.28/2020-21/13 dated 11.11.2020 for second batch testing of “International Tractors Limited, Sonalika International DI 740 Super CM Series Tractor” tractor.

All necessary tests as per Table-1 of clause 6.0 of IS: 5994 – 1998 (Reaffirmed in 2019) were carried out and test report released as under: -

Manufacturer : **M/s. International Tractors Limited.
Vill. Chak Gujran, P.O. Piplanwala,
Jalandhar Road, HOSHIARPUR- 146 022
(Punjab).**

Test requested by (applicant) : The Manufacturer
 Selected for test by : The Applicant
 Place of running-in : At manufacturer works place

Duration of said running-in (h):
 - Engine : 20
 -Transmission : 20

Method of Selection : Due to Covid-19 pandemic, it was not possible to conduct the random selection. Nor was it 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. SPECIFICATION

1.1 Tractor:
 Make : International Tractors Limited
 Model : Sonalika International DI-740 Super CM Series
 Type : Four wheeled, rear wheel driven, Unit construction, Agricultural tractor
 Variant: if any : None
 Month & Year of manufacture : 06 20
 Chassis number : HSASH105412S3
 Country of origin : India

1.2 Engine:
 Make : Simpsons Co. Ltd.
 Model : TIIIA S 325.2-F2.2
 Type : Four stroke, naturally aspirated, water cooled, direct injection, diesel engine.
 Serial number : K-58251
Engine speed (Manufacturer’s recommended production setting), (rpm):
 - Maximum speed at no load : 2100 to 2200
 - Low idle speed : 650 to 750
 - Speed at maximum torque : 1200 to 1400

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14.4 Salient Observations:

14.4.1 Laboratory test:

14.4.1.1 PTO Performance Test:

- Previous Sample
- i) The maximum PTO power was recorded as **28.4 kW** against the declaration of **27.2 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
 - ii) The specific fuel consumption was recorded as 249 g/kWh, against the declaration of **287 g/kWh**, which is within the tolerance limit of IS: 12207-2019.
 - iii) The backup torque is 16.3 %.

14.4.1.2 Hydraulic Performance Test:

- i) During hydraulic performance test the lower hitch point stucked in raised position and two number 'O' ring were replaced with new one.
- ii) During hydraulic load maintenance test, the hydraulic lift fully dropped after 20 minutes duration due to internal leakage in the hydraulic system. Two numbers 'O' rings of the composite valve assembly were replaced with new one.
- iii) During hydraulic lifting capacity test at standard frame the angle through which the mast rotates was observes as 3 degree which does not meet the requirements of Indian Standard.

14.4.1.3 Noise at operator's ear level:

Present Sample

- i) The maximum PTO power was recorded as **27.5 kW** against the declaration of **27.2 kW**, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power was recorded as **264 g/kWh** against the declaration of **287 g/kWh**, which is within the tolerance limit of IS: 12207-2019.
- iii) The backup torque is **17.3 %**.

- i) During the course of testing hydraulic performance test (lift capacity at lower hitch point test), relief valve pressure fluctuation occurs 80 to 190 bar. To rectify the problem, relief valve was replaced with new one (Part no. 10028960AC) having same specification. This breakdown is categorized as malfunctioning of relief valve -Minor defect (**Mn-28**) of IS: 12207-2019 & thereafter "**Repeat test**" was conducted.

During OEL noise test maximum noise was recorded as 99 dB(A) which does not meet the evaluative requirement of IS: 12207-2019 with regard to tolerance limit, hence Silencer (Muffler) was inspected, silencer gasket part no. 10002396AA was damaged, hence replace by new one. This defects has been categorized under Minor (**Mn-07**) of IS:12207-2019 .

14.5 Adequacy of literature:

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

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

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

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15. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

15.1 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 require- ments (Yes/No)
1	2	3	4	5	6	7
15.1.1	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.	27.2 (D)	27.5	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	27.2 (D)	27.5	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	287 (D)	264	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	$\pm 8\%$	148(D)	154	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12% (D) 12% (R) Minimum	17.3	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.	132 (D)	116	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.	115 (D)	99	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions.	1% of SFC 2.67 (R)	1.13	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 per meter Maximum (R)	0.23 per meter	Yes

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1	2	3	4	5	6	7	
15.1.2	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.	17.65 (D) 17.64 (R) Min	21.63	Yes	
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.	13.53 (D) 13.53 (R) Min	17.34	Yes	
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.	22.7 (D) 27.5 (R) Minimum	25.4	Yes	
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	130 (D)	80	Yes	
15.1.3	Power lift and hydraulic pump performance:						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of ± 10%	10.82 (D)	10.99	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.	9.81 (D) 6.47 (R) Minimum	8.35	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	10	Yes	

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1	2	3	4	5	6	7
15.1.4	Brake performance at 25 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with standard ballast, (m):					
1)	Cold brake	Evaluative	10	10 (R)	8.18	Yes
2)	Hot brake	Evaluative	10	10 (R)	8.51	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	396 to 469	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	360	Yes
15.1.5	Noise measurement:					
a)	Maximum ambient noise emitted by the tractor dB(A)	Evaluative	As per CMVR	88 (R)	87	Yes
b)	Maximum noise at operator's ear level dB(A)	Evaluative	As per CMVR	96 (R)	95	Yes
15.1.6	Amplitude of mechanical vibrations at:					
1)	Left foot rest	Non Evaluative	100 microns (max)	100(R)	179	No
2)	Right foot rest				142	No
3)	Seat (with driver seated)				64	Yes
4)	Steering wheel				54	Yes
15.1.7	Air cleaner Oil Pull-Over:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25% (Maximum)		0.11	Yes
15.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tonnes):					
	Two wheel	Non- Evaluative	--	4.0 (D)	4.0	Yes
	Four wheel		--	5.0 (D)	5.0	Yes
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non- Evaluative	--	5 to 6 (D)	5.91 to 5.99	Yes
	Four wheel		--	5 to 6 (D)	5.70 to 5.74	Yes
c)	Fuel consumption (ml/km/tonne) :					
	Two wheel	Non- Evaluative	--	30 to 40 (D)	41.7 to 42.3	No
	Four wheel		--	35 to 40 (D)	34.8 to 35.1	Yes
15.1.9	Wetland cultivation (Puddling Operation):					
	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 observed during ICT test vide test report no. T-603/1106 /2007 (November, 2007). So, as per clause 7.2 of IS: 12207-2019, test was not conducted.	--
1)	Clutch assembly	-do-				
2)	Brake housings	-do-				
3)	Front axle hubs	-do-				
4)	Engine oil	-do-				
5)	Transmission oil	-do-				

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1	2	3	4	5	6	7	
15.1.10	Safety features:						
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part-2))		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)		Meets the requirement	Yes	
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)		Meets the requirement	Yes	
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		12.40 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	
15.1.11	Labeling of tractors (Provision of labeling 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. 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.		International Tractors Limited	Yes	
	2) Model	Evaluative				Sonalika International DI-740 Super CM Series	Yes
	3) Month & Year of manufacture	Evaluative				06 & 20	Yes
	4) Engine number	Evaluative				K-58251	Yes
	5) Chassis number	Evaluative				HSASH105412S3	Yes
	6) Maximum PTO power, (kW)	Evaluative				27.2	Yes
	7) Specific fuel consumption, (g/kwh)	Evaluative				287	Yes

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1	2	3	4	5	6	7
15.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	91.68	91.479 to 91.489	Yes
(b)	Piston & cylinder liner clearance at skirt, (mm)	Non-Evaluative		0.45	0.144 to 0.146	Yes
(c)	Piston diameter at skirt, mm	Non-Evaluative		Piston is discarded when ring groove clearance exceeds 0.25 mm with new rings	91.060 to 91.345	Yes
(d)	Ring end gap (mm):					
	- Top comp. ring.	Evaluative	-do-	1.50	0.25 to 0.30	Yes
	- 2 nd comp. ring.		-do-	1.50	0.95 to 1.10	Yes
	- Oil ring.		-do-	1.50	0.50 to 0.55	Yes
(e)	Ring groove clearance (mm):					
	- Top comp. ring.	Evaluative	--Tapered--			--
	- 2 nd comp. ring.		-do-	0.25	0.060 to 0.064	Yes
	- Oil ring.		-do-	0.25	0.048 to 0.054	Yes
(f)	Clearance of main bearings (mm):					
	- Diametrical clearance	Evaluative	-do-	0.25	0.104 to 0.140	Yes
	- Crankshaft end float	Evaluative		0.50	0.20	Yes
(g)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.25	0.066 to 0.090	Yes
	- Axial	Evaluative	-do-	0.75	0.25 to 0.30	Yes
(h)	Clearance between king pin and bush, (mm)	Non-Evaluative	-do-	1.00	0.15 to 0.19	Yes
(i)	Clearance between centre pin and bush, (mm)	Non-Evaluative	-do-	1.00	0.12 to 0.26	Yes
15.1.13	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	Provided	Yes
(b)	Parts Catalogue	Evaluative		Provided	Provided	Yes
(c)	Workshop/ Service manual	Evaluative		Provided	Provided	Yes
15.1.14	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:11821 or OECD code or equivalent International Standard	Not fitted		Not applicable
15.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided		Yes
15.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR	Provided		Yes

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15.2 CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):					
Sl. 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.	Two (Mn-07 & Mn-28)	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.	Two Minor	Yes

15.3 Salient Observations:

15.3.1 Laboratory tests:

15.3.1.1 PTO Performance Test:

- i) The maximum PTO power was recorded as 27.5 kW against the declaration of 27.2 kW, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- ii) The specific fuel consumption corresponding to maximum power was recorded as 264 g/kWh against the declaration of 287 g/kWh, which is within the tolerance limit of IS: 12207-2019.
- iii) The maximum equivalent crankshaft torque was recorded as 154.0 N-m against the declaration of 148.0 N-m, which is within the permissible limit as specified in IS: 12207-2019.
- iv) The backup torque is 17.3 % & meets the evaluative requirement of IS:12207-2019.

15.3.1.2 Drawbar performance test:

- i) During ten hours drawbar performance test, creeping of LHS & RHS rear tyre over the rims was recorded as **30 & 25 mm**. This should be looked into for necessary corrective action.

15.3.1.3 Hydraulic performance test:

- i) During the hydraulic performance test (lift capacity at lower hitch point test), relief valve pressure fluctuation occurs 80 to 190 bar. To rectify the problem, relief valve was replaced with new one (Part no. 10028960AC) having same specification. This breakdown is categorized as malfunctioning of relief valve -Minor defect (**Mn-28**) of IS: 12207-2019. This should be looked into for necessary corrective action.

15.3.1.4 Noise at operator's ear level:

- i) During the noise at operator's ear level test the maximum noise was recorded as 99 dB(A) which does not meet the evaluative requirement of IS: 12207-2019 with regard to tolerance limit, hence Silencer (Muffler) was inspected, silencer gasket part no. 10002396AA was damaged, hence replace by new one. This defect has been categorized as under Minor (**Mn-07**) (leakage from gaskets) of IS:12207-2019. This should be looked into for necessary corrective action.




15.4 Maintenance / Service Problems:

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

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- 15.5 Recommendation with regard to safety on tractor:**
The following requirements, inter alia, may be considered for incorporation on the tractor:
- i) Width of seat, vertical distance from SIP to centre of clutch pedal & brake pedal, Longitudinal distance of SIP from differential lock should be provided as IS: 12343-1998 (Reaffirmed in: 2019).
 - ii) Vertical retainer at inner side of clutch pedal & provision for spark arresting device should be provided as IS: 12239 (Part-I)-2018.
 - iii) The spark arrester should be provided in the exhaust system as per the requirement of IS: 12239 (Part-1)-1996 (Re-affirmed in, 2018).
 - iv) Provision of master shield has should be provided as IS: 12239 (Part-II) (Reaffirmed in 2019).
 - v) Working clearance in between position control and draft control lever is should be provided as per IS: 12239 (Part-II) (Reaffirmed in 2019).
 - vi) Fuel shut-off knob does not remain in "STOP" position without application of sustainable force as per the requirement of IS: 8133 -1983 (Reaffirmed in January, 2019).
- 15.6.1** The following literature was supplied with the tractor for reference during the test.
- a) Operator Manual of International Tractors Limited, Sonalika International DI -740 Super CM Series tractor model.
 - b) Service Manual of International Tractors Limited, Sonalika International DI -740 Super CM Series tractor model (Part I & II).
 - c) Parts Catalogue of International Tractors Limited, Sonalika International DI -740 Super CM Series tractor model.
- The supplied literature was found adequate as per IS:8132 -1999 (Reaffirmed in 2019).
- 15.7** Applicant one month delayed in hydraulic performance test due to malfunctioning of relief valve & replacement.
- 15.8** Noise at Operator's Ear Level test was repeated to meet the evaluative requirement of IS: 12207-2019, for which it was delayed for two months.

TESTING AUTHORITY:

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

Test Report is compiled by: Pratyush Satya, Senior Technical Assistant.

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17. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
17.1	15.3.1.3 & 15.3.1.4	We have already taken care of subject matter for regular production models.

ANNEXURE- I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	40
2.	PTO performance test	11.3
3.	Drawbar performance test	20.8
4.	Power lift and hydraulic pump performance test	5.0
5.	Brake test	--
6.	Noise measurement	1.0
7.	Mechanical vibration test	1.1
8.	Theoretical speed test	--
B.	Haulage Test	5.41
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.7
	TOTAL:	91.3