

Application Reference No.28/2022-23/01

(यह परीक्षण रिपोर्ट 31/12/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/12/2029)



**INTERNATIONAL TRACTORS LIMITED,
DI - 35 HDM (BRAND NAME - RX) 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)**

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टरनगर, बुदनी (म.प्र.) 466 445

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE
TRACTOR NAGAR, BUDNI (M.P.) 466 445
(An ISO 9001:2015 Certified Institute)**

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

3. SPECIFICATIONS

3.1	Tractor:	
	Make	: International Tractors Limited
	Model	: DI-35 HDM
	Brand name	: RX
	Type	: Rear Wheel Drive, Standard Agricultural Tractor.
	Month & Year of manufacture	: 03/22
	Chassis number	: AYASJ115622953
	Country of Origin	: India
3.2	Engine:	
	Manufacturer's address	: M/s. International Tractors Limited. Vill. Chak Gujran, P.O. Piplanwala, Jalandhar Road, Hoshiarpur- 146 022 (Punjab).
	Make	: International Tractors Limited
	Model	: 3100FLU
	Type	: Four stroke, naturally aspirated, liquid cooled, direct injection, diesel engine.
	Serial number	: 3100FLU24C1148783F18
	Engine speed (Manufacturer's recommended production setting, (rpm) :	
	- Maximum speed at no load, (rpm)	: 1950±50
	- Low idle speed, (rpm)	: 750±50
	- Speed at maximum torque, (rpm)	: 1100 ±100
	Rated speed, (rpm):	
	- For PTO use	: 1800
	- For drawbar use	: 1800
3.3	Cylinder & Cylinder Head:	
	Number	: Three
	Disposition	: Vertical, inline
	Bore/stroke, (mm)	: 100/118 (apa)
	Capacity as specified by the applicant, (cc)	: 2780
	Compression ratio, (apa)	: 18.2(±0.2):1
	Type of cylinder head	: Individual
	Type of cylinder liner	: Wet, replaceable
	Type of combustion chamber	: Direct injection, re-entrant cavity on piston crown
	Arrangement of valves	: Overhead, Inline
	Valve clearance (cold/hot):	
	- Inlet valve, (mm)	: 0.30/0.30
	- Exhaust valve, (mm)	: 0.40/0.40
3.4	Fuel System:	
	Type of fuel system	: Gravity and force feed
3.4.1	Fuel tank:	
	Capacity, (l)	: 54 (apa)
	Location	: Above clutch housing
	Provision for draining of sediments /water	: Provided
	Type of fuel tank	: Metallic
3.4.2	Water separator:	
	Make	: Hilux
	Type	: Inverted funnel, gravity separation
	Location	: In between fuel tank & fuel feed pump on LHS of engine.
	Capacity, (l)	: 0.45

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

17. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

17.1 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)/ 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 or engine power >26 kW, $\pm 10\%$ for PTO power or Engine power ≤ 26 kW.	26.0 (D)	26.0	Yes
b)	Power at rated engine speed, (kW)	Non-Evaluative	-do-	26.0 (D)	26.0	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% maximum	250 (D)	242	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non-Evaluative	$\pm 8\%$	150 (D)	162.1	Yes
e)	Back-up torque, percent	Evaluative	12 %, minimum	12 %, (R) minimum.	17.6	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.	132 (D)	99	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)	102	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	2.40 (D) maximum 2.46 (R)	0.24	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	0.10	Yes

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

1	2	3	4	5	6	7	
17.1.2	Drawbar performance:						
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non-Evaluative	Minimum 70% of static mass with ballast	17.65 (D) 17.68 (R) minimum	21.53	Yes	
b)	Maximum drawbar pull without ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast	13.52 (D) 13.52 (R) minimum	15.29	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.	20.8 (D) 20.8 (R) minimum	22.6	Yes	
d)	Max. transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	130 (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	±10%	13.0 (D)	12.83	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	8.0 (D) 6.12 (R) minimum	10.56	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 minute, (mm)	Non Evaluative	Observed value should not exceed 50 mm.	50 (D) 50 maximum	45	Yes	

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

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	8.18	Yes
	2)	Hot brake	Evaluative	10	10	8.21	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 maximum	276 to 313	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	
17.1.5	Noise measurement:						
a)	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 maximum	86	Yes	
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	96 (as per CMVR)	96 maximum	93	Yes	
17.1.6	Amplitude of mechanical vibrations at:						
	1)	Left foot rest	Non-Evaluative	100 microns (max.)	100 (max.)	118	No
	2)	Right foot rest				154	No
	3)	Seat (with driver seated)				164	No
	4)	Steering Wheel				125	No
17.1.7	Air Cleaner:						
	Max. oil pull over, (%)	Evaluative	0.25% (max.)	Dry type air cleaner is fitted		Not applicable	
17.1.8	Haulage requirements:						
a)	Gross mass of the trailers, (tones):						
	1)	Two wheel	Non-Evaluative	As specified by the manufacturer	5.5 (D)	5.5	Yes
2)	Four wheel	6.0 (D)			6.0	Yes	
b)	Distance travelled / litre of fuel consumption, (km/l):						
	1)	Two wheel	Non-Evaluative	As specified by the manufacturer	4.5 to 7.0 (D)	6.08 to 6.17	Yes
2)	Four wheel	4.5 to 7.0 (D)			5.59 to 5.79	Yes	
c)	Fuel consumption (cc/km/tonne):						
	1)	Two wheel	Non-Evaluative	As specified by the manufacturer	20 to 38 (D)	27.0 to 27.40	Yes
2)	Four wheel	20 to 38 (D)			27.40 to 29.01	Yes	

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

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)	The major breakdowns were not observed in the field test during initial commercial testing of this tractor model having test report No. T- 1089/1614/2017 (May,2017)released in January 2019. So, as per the provision as laid down in clause 7.2 of IS: 12207-2019, the field test during the batch testing of this tractor model was not conducted.	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	12.03 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 fitted	Not applicable

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

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: 5px auto;"><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	M/s. International Tractors Limited Hoshiarpur, (Punjab) India	Yes
MM	YY						
	2) Model	Evaluative		International Tractors Limited	Yes		
	3) Month & Year of manufacture	Evaluative		DI – 35 HDM (Brand Name - RX)	Yes		
	4) Engine number	Evaluative		03/22	Yes		
	5) Chassis number	Evaluative		3100FLU24C114 8783F18	Yes		
	6) Maximum PTO power, (kW)	Evaluative		AYASJ115622953	Yes		
	7) Specific fuel consumption, g/kWh	Evaluative	26.0	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	100.346	100.060 to 100.070	Yes	
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non-Evaluative		0.450	0.141 to 0.153	Yes	
(c)	Piston diameter at skirt, (mm)	Non-Evaluative		99.2	99.916 to 99.919	Yes	
d)	Ring end gap, (mm):						
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	2.0	0.50 to 0.65	Yes	
	- 2 nd comp. ring.			2.0	0.70 to 0.80	Yes	
	- Oil ring.			2.0	0.50 to 0.65	Yes	
(e)	Ring groove clearance, (mm):						
	- Top comp. ring.	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	Tapered	--	
	- 2 nd comp. ring.			0.20	0.048 to 0.050	Yes	
	- Oil ring.			0.20	0.037 to 0.038	Yes	
(f)	Clearance of main bearings, (mm):						
	- Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.35	0.085 to 0.095	Yes	
	- Crankshaft end float	Evaluative		0.70	0.23	Yes	
(g)	Clearance of big end bearings, (mm):						
	- Diametrical	Evaluative	-do-	0.35	0.065 to 0.073	Yes	
	- Axial	Evaluative	-do-	1.00	0.25	Yes	
(h)	Clearance between king pin and bush, (mm)	Non-Evaluative	-do-	1.00	0.123 to 0.167	Yes	
(i)	Clearance between centre pin and bush, (mm)	Non-Evaluative	-do-	1.00	0.224 to 0.224	Yes	

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

1	2	3	4	5	6	7
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):					
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	There is no 'critical breakdown' during the course of testing	None	Yes
2.	Major	Evaluative	There are not more than 1 major breakdowns and neither of them is of repetitive nature	None	Yes
3.	Minor	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

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 – 11 of this test report is on higher side. This calls for dampening down of vibrations especially on left foot rest, right foot rest, seat and steering wheel to improve the operational comfort and service life of components.

17.3.1.2 Three-point linkage:

i) The dimensions viz. diameter of hitch pin hole of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch points and lateral distance from lower hitch point to centre line of tractor does not meet the requirements of IS:4468 (Part-I) – 1997. This should be looked into for corrective action.

The above observations were also made in the previous test report No. T-1089/1614/2017 (May, 2017) and no improvement have been made as regards to its conformity so far.

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

17.3.1.3 Operator's seat:

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

- i) Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- ii) Vertical distance from SIP to centre of steering control wheel has been measured as 180 mm against the requirement of 265 to 385 mm.
- iii) Vertical distance of SIP from foot rest has been measured as 550 mm against the requirement of 450 to 520 mm.

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) Fuel shutoff knob does not remain in stop position as per the requirement of IS: 8133-2021.
- ii) Colour code for engine revolution gauge has not been provided as per the requirement of IS: 6283-Part-2-2007.
- iii) Hazard warning display (Red) has not been provided as per the requirement of IS: 6283-Part-2-2007.
- iv) Identification of hand control by colour coding of engine speed control, transmission control, parking brake (orange), differential locks & PTO engage lever (yellow) has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
- v) 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.
- vi) Vertical retainers has not been provided in inner side of clutch pedal as per IS:12239 (Part -1)2018.
- vii) Spark arrester has not been provided in the exhaust system as per IS:12239 (Part -1) 2018.
- viii) The working clearance between draft control lever and RHS fender has been measured as 45 mm against the minimum requirement of 70 mm as per IS:12239(Part-2)-1999.
- ix) PTO master shield has not been provided as per IS:12239 (Part-2).

All of the above should be looked into for necessary corrective action.

17.6 Adequacy of Literature supplied with machine:

17.6.1 The following literature was supplied with test sample for reference during the test.

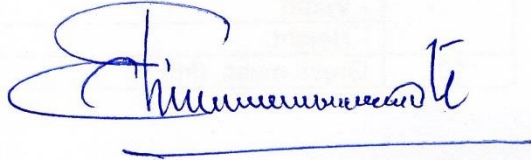
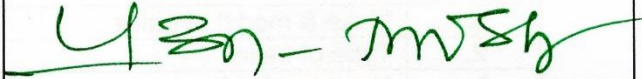
- a) Operator's manual for International Tractor Ltd., DI-35 HDM (Brand Name- RX) & DI-35 HDM S1 tractor model.
- b) Service manual Part-I & II for International Tractor Ltd., DI-35 HDM (Brand Name- RX) & DI-35 HDM S1 tractor model.
- c) Spare part's catalogue for International Tractor Ltd., DI-35 HDM (Brand Name- RX) & DI-35 HDM S1 tractor model.

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) Technical specification of tractor in the operator's manual.
- ii) Service schedule and grade of steering oil.
- iii) Safe hitch height while using trailer.
- iv) Recommendation regarding matching implements.

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

TESTING AUTHORITY:

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

Test report is compiled by: **C.S. Raghuwanshi**, Agricultural Engineer.

18. APPLICANT COMMENT'S

Para No.	Our Reference	Applicant's comments
18.1	17.5(i), (ii), (iii), (iv), (v), (vi), (vii), (viii) & (ix) & 17.3.1.3 (i), (ii) & (iii).	Your valuable comments & suggestions for improvements are well taken. Under our policy of continuous product improvement these aspects are further being looked into for necessary corrective actions.
18.2	17.6.2 (i), (ii), (iii), (iv) & (iv).	Observation will be studied and necessary corrective action for improvement in the manuals will be ensured.

T- 1695/2226/2022	INTERNATIONAL TRACTORS LIMITED, DI - 35 HDM (BRAND NAME - RX) – Commercial (First Batch Test)
	THIS TEST REPORT IS VALID UPTO 31/12/2029

ANNEXURE-I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Single axle trailer	Double axle 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 axle(s)	Single	Double
5.	Un laden Weight of Trailer, kg	1670	2800
6.	Fully laden Weight of Trailer, (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

ANNEXURE - II

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	40.0
2.	PTO performance test	11.1
3.	Power lift and hydraulic pump performance test	5.2
4.	Drawbar performance test	14.4
5.	Brake test	1.5
6.	Noise measurement	1.5
7.	Mechanical vibration test	1.0
8.	Nominal speed test	1.0
B.	HAULAGE TEST:	2.6
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.9
TOTAL:		85.2