

व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच)
COMMERCIAL TEST REPORT (1st Batch)

संख्या/No. : T- 1652/2183/2022
माह/Month : June, 2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 30/06/2027 तक वैध है/THIS TEST REPORT IS VALID UPTO 30/06/2027)



**ESCORTS LIMITED, 26
(BRAND NAME: FARMTRAC) 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, CO-OPERATION AND FARMERS WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.)-466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

(An ISO 9001: 2015 Certified Institute)

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3. SPECIFICATIONS

3.1	Tractor:	
	Make	: Escorts Limited
	Model	: 26
	Type	: Four Wheel Drive, Standard Agricultural Tractor.
	Month & Year of manufacture	: 11/21
	Chassis number	: T052573596HK
	Country of Origin	: India
3.2	Engine:	
	Manufacturer's address	: M/s. Mitsubishi Heavy Industries – VST Diesel Engines Pvt. Ltd. Plot No. 305, Hebbal Industries Area Metagalli, Mysore - 570016
	Make	: Mitsubishi Heavy Industries – VST. Diesel Engines Pvt. Ltd.
	Model	: MVS3L2-T3CC2
	Type	: Four stroke, naturally aspirated, liquid cooled, indirect injection, diesel engine.
	Serial number	: A58778
	Engine speed (Manufacturer's recommended production setting, (rpm) :	
	- Maximum speed at no load,(rpm)	: 2870 to 2930
	- Low idle speed, (rpm)	: 970 to 1030
	- Speed at maximum torque, (rpm)	: 1400 to 2000
	Rated speed, (rpm):	
	- For PTO use	: 2700
	- For drawbar use	: 2700
3.3	Cylinder & Cylinder Head:	
	Number	: Three
	Disposition	: Vertical, inline
	Bore/stroke, (mm)	: 78/92 (apa)
	Capacity as specified by the applicant, (cc)	: 1318
	Compression ratio, (apa)	: 22 ± 5 : 1
	Type of cylinder head	: Monoblock
	Type of cylinder liner	: Dry, non replaceable
	Type of combustion chamber	: Swirl, pre-combustion chamber on cylinder head
	Arrangement of valves	: Overhead, Inline
	Valve clearance (cold):	
	- Inlet valve, (mm)	: 0.25
	- Exhaust valve, (mm)	: 0.25
3.4	Fuel System:	
	Type of fuel system	: Gravity and force feed
3.4.1	Fuel tank:	
	Capacity, (l)	: 23.0
	Location	: Above clutch housing
	Provision for draining of sediments /water	: Not provided
	Material of fuel tank	: Plastic
3.4.2	Water separator	: Not provided
3.4.3	Fuel feed pump:	
	Make	: Pricol (apa)
	Type	: Diaphragm Electrical
	Model/Group combination No.	: 30N60-006000 (apa)
	Provision of sediment bowl	: Not Provided
	Method of drive	: Electrically operated

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Previous Sample

15.4.1.2 Hydraulic Performance Test:

- i) The moment about rear axle at standard frame was calculated 8.87 kN-m where as, the moment about front axle was calculated 6.67 kN-m under standard ballast condition. The moment about rear axle is on higher side as compared to the moment about front axle.

Present Sample

- i) The moment about rear axle at standard frame was calculated 6.72 kN-m where as, the moment about front axle was calculated 6.59 kN-m under standard ballast condition. The moment about rear axle is on higher side as compared to the moment about front axle.

15.5 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) Parts catalogue | b) Parts catalogue |
| c) Repair manual | c) Service manual |

16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

- 16.1** 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
16.1.1	PTO Performance:					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: ± 5% for PTO power or engine power >26 kW, ± 10% for PTO power or Engine power ≤ 26 kW.	14.55 (D)	14.4	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	14.55 (D)	14.4	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	325 (D)	326	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	± 8%	65.0 (D)	58.1	No
e)	Back-up torque, percent	Evaluative	12 %, min.	12 %, (R) minimum	14.1	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.	130 (D)	98	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.	110 (D)	90	Yes

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1	2	3	4	5	6	7	
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. power under High ambient conditions	3.25 (D) 3.30 (R) maximum	1.4	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 max.	0.18	Yes	
16.1.2 Drawbar performance:							
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass with ballast	Not applicable	Not applicable	--	
b)	Maximum drawbar pull with std. ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast	6.80 (D) 6.69 (R) minimum	8.62	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.	10.91 (D) 10.8 (R) minimum	12.4	Yes	
d)	Max. transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	125 (D)	100	Yes	
16.1.3 Power lift and hydraulic pump performance:							
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	±10%	9.00 (D)	9.56	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	3.71 (D) 3.39 (R) minimum	5.25	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 (R) maximum	05	Yes	
16.1.4 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	7.10	Yes
	2)	Hot brake	Evaluative	10	10	7.30	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	Evaluative	600	600 maximum	400 to 450	Yes	

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1	2	3	4	5	6	7
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
16.1.5	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)	85 maximum	78	Yes
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	96 (as per CMVR)	96 maximum	92	Yes
16.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	100 (max.)	155	No
	2) Right foot rest				91	Yes
	3) Seat (with driver seated)				144	No
	4) Steering Wheel				122	No
16.1.7	Air Cleaner:					
	Max. oil pull over, (%)	Evaluative	0.25% (max.)	Dry type air cleaner is fitted	Not applicable	--
16.1.8	Haulage requirements:					
a)	Gross mass of the trailers, (tones):					
	Two wheel	Non Evaluative	As specified by the manufacturer	2.0 (D)	2.0	Yes
b)	Distance travelled / litre of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	As specified by the manufacturer	4.0 to 5.0 (D)	6.67 to 6.78	No
c)	Fuel consumption (cc/km/tonne):					
	Two wheel	Non Evaluative	As specified by the manufacturer	85.0 to 90.0 (D)	73.74 to 74.95	No
16.1.9	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	The manufacturer has recommended that the tractor is not suitable for wet land cultivation	--
	1) Clutch assembly	-do-				
	2) Brake housings	-do-				
	3) Front axle hubs	-do-				
	4) Engine oil	-do-				
	5) Transmission oil	-do-				
16.1.10	Safety features:					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulley, 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 requirement (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 (Tractors rear track width is less than 1150 mm)	--

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1	2	3	4	5	6	7
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)	Dimension of three point linkage	Non-Evaluative	Should meet the requirements of IS 4468 (part 1) (as amended from time to time)	--	Does not meet the requirement	No
f)	Specification of linkage drawbar	Evaluative	Should meet the requirements of IS 12953 and IS 12362 (part 3) (as amended from time to time)	--	Meets the requirement	Yes
g)	Specifications of Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirements of IS 12362 (Part 3) (As amended from time to time)	--	Not fitted	--
h)	1) Maximum travelling speed at rated engine speed in reverse gears, (kmph)	Evaluative	Should not exceed 20 Kmph	--	11.19 (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. Not applicable	--	Not applicable	--
16.1.11	Labeling of tractors (Provision of labeling plate):					
	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	Escorts Limited		Yes
	2) Model	Evaluative		26		Yes
	3) Month & Year of manufacture	Evaluative		11/21		Yes
	4) Engine number	Evaluative		A58778		Yes
	5) Chassis number	Evaluative		T052573596HK		Yes
	6) Declaration of maximum PTO power, (kW)	Evaluative		14.55		Yes
	7) Specific fuel consumption (g/kWh)	Evaluative		325		Yes
16.1.12	Discard limit for:					
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer	78.200	78.027 to 78.056	Yes
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.300	0.097 to 0.103	Yes
(c)	Piston diameter at skirt, (mm)	Non Evaluative		77.8	77.953 to 77.957	Yes
(d)	Ring end gap (mm):					
	- Top comp. ring	Evaluative	-do-	1.50	0.35 to 0.40	Yes
	- 2 nd comp. ring		-do-	1.50	0.40 to 0.45	Yes
	- Oil ring		-do-	1.50	0.40 to 0.45	Yes
(e)	Ring groove clearance (mm):					
	- Top comp. ring	Evaluative	-do-	0.300	Tapered ring	--
	- 2 nd comp. ring		-do-	0.300	0.071 to 0.076	Yes
	- Oil ring		-do-	0.200	0.047 to 0.050	Yes
(f)	Clearance of main bearings (mm):					
	- Diametrical clearance	Evaluative	-do-	0.100	0.017 to 0.052	Yes
	- Crankshaft end float	Evaluative	-do-	0.50	0.15	Yes

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1	2	3	4	5	6	7
(g)	Clearance of big end bearings, (mm):					
	- Diametrical	Evaluative	-do-	0.15	0.013 to 0.071	Yes
	- Axial	Evaluative	-do-	0.50	0.15 to 0.20	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	Not applicable	Not applicable	--
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	0.60	0.14 to 0.30	Yes
16.1.13	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
16.1.14	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	---
16.1.15	Standard accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor	Provided	Provided	Yes
16.1.16	Accessories (Optional)	Non Evaluative	Ballast weights if fitted should meet the requirement of CMVR.	Provided	Provided	Yes

16.2 CATEGORY OF BREAKDOWNS / DEFECTS:					
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

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16.3 Salient Observations:

16.3.1 Laboratory tests:

16.3.1.1 PTO Performance:

The maximum equivalent crankshaft torque was recorded as 58.1 Nm against the declaration of 65.0 Nm, which does not meet the requirement of IS: 12207- 2019 with regard to tolerance limit. This should look into for necessary corrective action.

16.3.1.2 Drawbar performance:

The maximum transmission oil temperature was recorded 100 °C during drawbar test, whereas during Initial Commercial Test it was recorded 88 °C, which does not meet the requirement of clause 7.6 of IS: 12207- 2019 with regard to tolerance limit. This should look into for necessary corrective action.

16.3.1.3 Hydraulic Performance:

i) During hydraulic lifting capacity at hitch point, maximum corrected force exerted through full range was recorded 10.0 kN against the declaration of 9.0 kN, which does not meet the evaluative requirement of IS: 12207-2019.

Upon this, the applicant has requested vide letter no. 28/2021-22/68_03 dated 25.03.2022 to carry out the following work on tractor, to rectify the defect, which was allowed.

- a) Cleaning of hydraulic oil lines.
- b) Cleaning of hydraulic oil suction strainer.

This should be looked into for necessary improvement.

ii) The maximum corrected force exerted through full rage at standard frame was recorded 5.25 kN, whereas during Initial Commercial Test it was recorded it was recorded 6.90 kN, which does not meet the requirement of clause 7.6 of IS: 12207- 2019 with regard to tolerance limit. This should look into for necessary corrective action.

16.3.1.4 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 left foot rests, steering wheel and operator's seat to improve the operational comfort and service life of components.

The above observations were also made in the previous test report No. T-1195/1722/2018 (November, 2018) and no improvement have been made as regards to its conformity so far.

16.3.1.5 Haulage test:

i) Distance travelled per litre of fuel consumption was recorded as 6.67 to 6.78 against the declaration of 4.0 to 5.0. This should be looked into for necessary corrective action.

ii) The fuel consumption in ml/km/tonne recorded as 73.74 to 74.95 against the declaration of 85.0 to 90.0. This should be looked into for necessary corrective action.

16.3.1.6 Three point linkage:

i) The lateral of lower hitch point lower hitch was measured 40 mm against the minimum requirement of 50 mm, which does not meet the requirement of IS: 4468 -1997 (Part-2). This should be looked into for necessary corrective action.

ii) Distance from end of power take-off to centre of lower hitch point (lower links in horizontal position) was measured 410 mm against the required range of 300 to 375 mm. which does not meet the requirement of IS: 4468 -1997 (Part-2). This should be looked into for necessary corrective action.

The above observations were also made in the previous test report No. T-1195/1722/2018 (November, 2018) and no improvement have been made as regards to its conformity so far.

16.3.1.7 Wheel Rims:

i) The size of the steered wheel rims was found to be "5J".

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- ii) Rule 95 A (2) of CMVR, 1989 read in conjunction with IS:13154-2015 provides for “ The Agricultural Tractor manufacturer shall select **ONLY THAT RIM SIZE AS RECOMMENDED BY THE TYRE MANUFACTURER**”. In this case, the rim size **RECOMMENDED** by ITTAC manual is “5JA”. An **immediate corrective action** is required to be taken even in stand point of view with compliance to CMVR,1989.

16.3.1.8 Component and Assembly Inspection:

The type of cylinder liner was of Dry & non replaceable. However, in the specification sheet submitted by the applicant it was declared Wet & replaceable. It must be looked into for necessary corrective action.

16.4 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 in exhaust system as per the requirement of IS: 12239 (Part-1)-2018.
- ii) Vertical retainers as per the requirement of IS: 12239 (Part-1)-2018.
- iii) The Working clearance between the position control and draft control was measured 40 mm against the minimum requirement of 70 mm. This should be provided as per IS: 12239 (Part-2) – 1999 (Reaffirmed in January, 2019).
- iv) PTO master shield should be provided on tractor as per IS: 4931-1995 (Reaffirmed in January, 2019).

The above observations were also made in the previous test report No. T-1195/1722/2018 (November, 2018) and no improvement have been made as regards to its conformity so far.

16.5 Maintenance / Service Problems:

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

16.6 Adequacy of Literature supplied with machine:

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



- a) Operator’s manual for Escorts Limited, 26 (Brand name: Farmtrac) & 30 (Brand name: Farmtrac) tractor model.
- b) Repair manual for Escorts Limited, 26 (Brand name: Farmtrac) & 30 (Brand name: Farmtrac) tractor model.
- c) Parts catalogue for Escorts Limited, 26 (Brand name: Farmtrac) & 30 (Brand name: Farmtrac) tractor model.

16.6.2 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) Declaration that “**the tractor is not suitable for wet land operation**”.
- ii) Safe hitch height while using trailer.
- iii) Inflation pressure and load carrying capacity of steered wheels & drive wheels tyre.
- iv) Brand name of coolant and it’s ratio.
- v) Recommended gross mass of trailer for haulage operation.
- vi) Specification of recommended matching trailer for haulage operation.

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TESTING AUTHORITY:

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

Draft Test Report is compiled by: Vithato Keyho, Senior Technical Assistant

17. Applicant's comments

Para no.	Our reference	Applicant's comments
17.1	16.3.1.7	Your comment for fitment of recommended rim size according to IS: 13154-2015/ITTAC manual is well taken. We will try to take necessary actions in our design to eliminate this gap.
17.2	16.3.1.8	Your valuable comment for correction is well taken. We will avoid such discrepancies in future, to match the specifications of machine submitted with it's specification application.
17.3	16.6.2	We will try to eliminate such discrepancies in future.

ANNEXURE-I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

S. No.	Item	Trailer
1.	Make	Ram Agritech
2.	Model	MINI
3.	Type of trailer	Semi- trailer
4.	Number of axles	Single
5.	Un laden Weight of Trailer, kg	560
6.	Fully laden Weight of Trailer, (kg)	2000
7.	Overall dimensions of Trailer, (mm):	
	Overall Width	1610
	Overall Length	3300
	Overall Height	1140
	Wheel Base	Not applicable
	Wheel Track	1230
8.	Dimension of fitted Platform, (mm):	
	Length	2520
	Width	1610
	Height from ground	530
9.	Brakes of Trailer	Not Provided

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ANNEXURE – II

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	50.0
2.	PTO performance test	12.4
3.	Power lift and hydraulic pump performance test	2.0
4.	Drawbar performance test	13.7
5.	Brake test	1.3
6.	Noise measurement	1.8
7.	Mechanical vibration test	0.8
8.	Nominal speed test	1.6
B.	HAULAGE TEST:	7.3
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.9
TOTAL:		97.8