प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T- 1868/2399/2024

INITIAL COMMERCIAL TEST REPORT माह/Month : July, 2024

Application Reference No. 28/2023-24/110

(यह परीक्षण रिपोर्ट 31/07/2029 तक वैध है / THIS TEST REPORT IS VALID UPTO 31/07/2029)



**Make of Agricultural Tractor** 

Model

Manufactured by

: TAFE

: MF 244 DI

: Tractor and Farm Equipment Ltd.

Box No. 3302, Old -35 (New-77) Mahatma Gandhi Road, Nungambakkam, Chennai-

600034



## 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 ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

**CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE** 

TRACTOR NAGAR, BUDNI (M.P.) 466 445

(An ISO 9001:2015 Certified Institute)

E-mail: fmti-mp@nic.in Web site: http://www.fmttibudni.gov.in Telephone: 07564-299003

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## IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide an OM No. 13-17/2021-M&T (I&P) dated 28.07.2022, that since 15<sup>th</sup> August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report: -

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

Month: July Test Report No.: T-1868/2399/2024 Year: 2024



## GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

E-mail: fmti-mp@nic.in

Web site: http://www.fmttibudni.gov.in

Telephone: 07564-299003

**CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE - BUDNI** 

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Tractor manufacturer's name and : Tractor and Farm Equipment Ltd. Box No. 3302, Old -35 (New-77) Mahatma Gandhi address Road, Nungambakkam, Chennai- 600034 1) M/s. Tractors and Farm Equipment Limited, [D] Location of other manufacturing kalladidipatti plant, 10/205, kalladipatti (PO), plants Pin-624201, Dindigul Dist., (T.N.) 2) M/s. Tractors and Farm Equipment Limited, Doddaballapur plant plot No. – 1, KIADB Industrial area, Doddaballapur, Bengaluru- 561203 (KA) Submitted for test by (Applicant) The Manufacturer The Ministry vide OM No. 13-17/2021 - M&T (I&P) Selected for test by [C] dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test sample to the Institute for test. [D] Place of running-in At manufacturer's works [D] Duration of running-in (h): -Engine 12 -Transmission 24 : [C] Location of test Government of India, Central Farm Machinery Training and Testing Institute, P.O. - Tractor Nagar, BUDNI - 466445 (M.P.), INDIA 1. SPECIFICATIONS OF TRACTOR 1.1 Identification: 1.1.1 Denomination Make of tractor : TAFE [C] Model : MF 244 DI [C] Type Four wheeled, Rear Wheel Driven, Standard Agricultural Tractor. [C] Month & year of manufacture 01/24 [D] Country of origin India 1.1.2 Numbers: 1st Serial No. of prototype [D] : MEA9B191AM2335690 [C] Serial No. MEA9B191AR2521201 1.2 **Engine:** Manufacturer's address I) Simpson & Co. Ltd., No. 861, 862, Anna salai, [D] Chennai. Tamil Nadu- 600002 II) Simpson & Co. Ltd., No.41, Thiruvidaimarudur road, Rajan thottam town extension, kumakkonam, Tamil Nadu- 612001 III)Simpson & Co.Ltd., Huzur garden, sembiam Estate, Chennai, Tamil Nadu- 600011 Make Simpson Model T III A S325.1-F2.6 [C] Type Four stroke, naturally aspirated, water cooled, direct injection, diesel engine Serial No. S325.1N84946 1.2.1 Cylinders: [C] Number/disposition Three / vertical Inline

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## 6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

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: 12207-2022** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	Cha	aracteristic	Category (Evaluative / Non- Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirement s (Yes/No)				
1		2	3	4	5	6	7				
		DATORY TES <sup>1</sup> d 28 <sup>th</sup> of July, 2		inistry's Office Memorandun	n No. 13-1	7/2021-I	/I&T (I&P)				
6.1.1		Performance:	2022).								
a)		mum power	Evaluative	Declared value to be achieved	27.2	27.4	Yes				
	under 2 h test, (kW) (Natural ambient condition)		under 2 h test, (kW) (Natural			with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	(D)				
b)		er at rated	Non -	-do-	27.2	27.0	Yes				
	(kW)	ie speed,	Evaluative		(D)						
с)	Specific fuel consumption corresponding to maximum power,		consumption corresponding to maximum power,		consumption corresponding to		Evaluative	Should not be more than 10% of declared value.	265 (D)	247	Yes
d)	Maximum equivalent crankshaft torque, (Nm)		Non- Evaluative	± 8%	155 (D)	148.1	Yes				
e)	Back- perce	-up torque, ent	Evaluative	Should be min. 12%	12 (D) 12 (R)	14.9	Yes				
f)		mum 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 natural ambient/high ambient condition should not exceed the declaration.	132 (D)	116	Yes				
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	112 (D)	93	Yes				
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.47 (R) Maximum		Yes				
h)	(g/kWh)  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 (As per CMVR). Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum	0.09	Yes				

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1	2	3	4	5	6	7		
6.1.2	Drawbar performance:							
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Non- Evaluative	Minimum 70% of static mass of tractor with ballast.	*	*	*		
b)	Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	In case of tractors having total static mass ≥ 1500 kg, Min 70% of static mass of tractor without ballast or with standard ballast, as the case may be.  In case of light weight tractors having ≤ 1500 kg total static mass of tractor, Min. 65% of static mass of tractor without ballast or with standard ballast, as the case may be.	13.0 (D) 13.39 (R) Minimum	15.18	Yes		
c)	Maximum drawbar power with standard 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.	22.0 (D) 21.9 (R) Minimum	22.8	Yes		
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the recommendation by the oil manufacturer. The observed value should not exceed the declared value throughout the drawbar test.	132 (D)	81	Yes		

The applicant vide letter no. Nil dated 30.04.2024 has requested not to conduct the ballasted drawbar performance & ten-hour drawbar test, which was allowed as per the additional guidelines for testing of tractors as per new regime of testing of tractors vide a OM No. 13-32/2023-M&T (I&P) (FTS-125476) dated 16.05.2023. Accordingly, drawbar performance test under standard ballasted condition was conducted only.

6.1.3	Po	Power lift and hydraulic pump performance:								
a)	Ма	Maximum lifting capacity throughout the range of lift, (kN):								
	1)	13.57	Yes							
		points		of declared value.	12.33					
					Minimum					
	2)	With the	Evaluative	The lift capacity should at	8.0 (D)	12.98	Yes			
		standard		least be 24 kg/PTO kW and it	6.45 (R)					
		frame		should be 21.5 kg/engine kW	Minimum					
				where the tractor is not						
				provided with a PTO shaft.						

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1	2	3	4	5	6	7
b)	Maximum drop in	Non-Evalua	The observed value should	50 (D)	110	NO
۵,	the height of the	tive	not exceed 50 mm.	Maximum	110	
	point of the	uvo	not oxogod oo miin	Maximum		
	application of the force after each 5					
	minutes interval					
	for a total duration					
	of 30 Minutes,					
	(mm)					
6.1.4	Brake performance	e at 25 kmph:				
a)	Maximum stopping	distance at a f	orce, equal to or less than 600	N on brake	pedal w	ith road
	ballast, (m):		•			
	Cold brake	Evaluative	10	10	7.49	Yes
	2) Hot brake	Evaluative	10	10	7.66	Yes
b)	Whether parking	Evaluative	Yes / No	Yes	Yes	Yes
	brake is effective		. 55 / 1.15	. 55		
	at a force of 600 N					
	at foot pedal (s) or					
	400 N at hand					
	_					
C 4 F	lever	. A - 41			(a. 4laana	<b>.</b>
6.1.5			cant has not applied for any o	optional tesi	is, there	rore no
	optional tests were	e conducted.				
6.1.6	Safety features:			1		
a)	Guards against	Evaluative	Belt drives, pulleys,	Meets the		Yes
	moving and hot		silencer, hydraulic pipes	requireme	ent	
	parts		[As per IS 12239 (Part2)]			
b)	Lighting	Evaluative	As per CMVR	Conform	S	Yes
	arrangement					
c)	Seating	Non-	Should meet the	Does no	t	No
	requirements	Evaluative	requirements of IS: 12343	meet the	е	
	(Tractors having		(As amended from time to	requireme	ent	
	more than 1150		time)	<u> </u>		
	mm rear track					
	width)					
d)	Technical	Non-	Should meet the	Does no	t	No
	requirements for	Evaluative	requirements of IS: 4931 (As	meet the	е	
	PTO shaft		amended from time to time)	requireme	ent	
e)	Dimensions of	Non-	Should meet the	Does no	t	No
	three-point linkage	Evaluative	requirements of IS 17231:	meet the		
	9-		2019 (As amended from	requireme		
			time to time)			
f)	Specifications of	Non-	Should meet the	Meets th	е	Yes
'	linkage drawbar	Evaluative	requirements of IS: 12953	requireme		-
			(As amended from time to			
			time)			
g)	Swinging drawbar	Non-	Should meet the	Not provid	ed	Not
3,	(wherever fitted)	Evaluative	requirement of IS: 12362			plicable
	(**************************************		(Part 3) (As amended from			F
			time to time)			
h)	Audible warning	Evaluative	If tractor travel speed in	Not fitted	l k	Not
<b>,</b>	signal on tractor	(if fitted)	reverse gear exceeds 20			plicable
	3 211 30.00	(111100)	kmph, an audible warning			,
			signal on tractor shall get			
			activated.			
			A sticker to the effect that			
			"operating the tractor beyond			
			20 kmph speed in reverse			
			gear is not safe" should be			
			prominently displayed.			

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1		2		;	3	4	5		6	7
6.1.7	Lak	eling of t	ractor	s (Prov	ision of	Labeling plate):				
	1)	Make		Evalua	tive	Should conform	to the		TAFE	Yes
	2) Model		Model		tive	requirements of	CMVR	MI	F 244 DI	Yes
	3) Month &		Month &		tive	along-with declare	ed value		01/24	Yes
		Year of				of PTO in kW, Spe	cific fuel			
		manufac	ture			consumption	(SFC)			
	4)	Engine		Evalua	tive	corresponding	to	S32	5.1N84946	Yes
		number				maximum power in	n g/kWh			
	5)	Chassis		Evalua	tive	and year of manufa	acture in	MEA	\9B191AR	Yes
		number				numerical form		2	521201	
	6)	Maximur	n	Evalua	tive	MM YY			27.2	Yes
	′	PTO po	wer,			Digit 01-12 in box I	No. 1 for			
		(kW)				MM will represe				
	7)	Specific	fuel	Evalua	tive	month and next two			265.0	Yes
	′	consump				the box No. 2 for	•			
		(g/kWh)	,			represent the y	ear of			
		(5 )				manufacturing.				
6.1.8	Lite	erature (S	ubmis	sion to	test age	ency):		<u> </u>		l
(a)		erator mar			ative	The printed litera		Р	rovided	Yes
(b)		Parts Catalogue		Evalu	ıative	booklet form sho		Р	rovided	Yes
(c)		Workshop/		Evalu	ıative	provided as per IS 8		Р	rovided	Yes
	Ser	vice manu	ıal			should submit along test sample.	j with the			
6.1.9	Fitment of Roll Over Protective S									
		tractor h			ative	ROPS should m		N	ot fitted	Not
	mo	re than	1150			requirement of IS:1				applicable
	mm		track			OECD code or ed International Standa				
6.1.10	wid	tn ndard		Evalua	tis co				rovided	Yes
6.1.10		essories		Evalua	live	Trailer hitch, front to linkage drawbar sh		Г	Tovided	168
	Acc	,63301163				provided with tracto				
6.1.11	Acc	essories		No	on	Ballast weight, i	f fitted,	N	ot fitted	Not
	(op	tional)		Evalu	ıative	should meet	the			applicable
6.2	CA	TECODY	OE DE	EVKDO	NWNS /	requirement of CM\		O of	IS:12207_2	 
S. No.		egory of		egory	JVVING /	DEFECTS ( As per Requirements	Clause 3		observed	Whether
O. NO.		k-downs		luative	a	ns per IS: 12207-20	22	7.0	00001104	meets the
			•	lon-		•				Requirement (Yes/No)
				uative)						
1.	Crit	ical	Eval	uative		is no 'critical bre			None	Yes
2	N/a	or	Evel	LLOtiv (C		the course of testing			None	Yes
2.	'			are not more than lowns and neither	•		None	res		
						be of repetitive nati				
3.	Min	or	Evaluative There			e are not more than 5 minor			None	Yes
					defects during the test and neither					
						n should of repetitive				
_	_		_			case, the total nu			None	Yes
4.	Tot		Eva	luative		lowns should exce				
		akdown				, (2 major + 3 minor)				
	S				major breakd	+ 4 minor) or 5	וווווטר			
	1				DIEGINO	10 VVI 13.				

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#### 6.3 Conformity with following IS:

i) Guidelines for declaration of power and specific fuel consumption and labeling of agricultural tractors (First revision) [IS:10273 -1987 (Reaffirmed Year 2019)]

ii) Agricultural tractors – Rear mounted power take-off - Types 1, 2 and 3 (third : **Does not** revision) [IS:4931-1995 (Reaffirmed Year 2019)] **conform** 

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Categories : **Does not** 1N,1, 2N, 2, 3N, 3, 4N & 4 [IS:17231-2019] conform

iv) Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed Year : Conforms

2022)]

v) Agricultural tractors- Operator's seat technical requirement [IS12343 – 2021] : Does not conform

vi) Guide for safety & comfort of operator of agricultural tractors: Part 1 General : Does not requirements (first revision):[IS 12239 (Part 1) – 2018] conform

vii) Tractors and machinery for agriculture and forestry – Technical means for : Does not ensuring safety Part 2: Tractors (first revision) (IS 12239 (Part 2) 1999) conform (Reaffirmed Year 2019)]

viii) Guide lines for location and operation of operator controls on agricultural tractors : **Does not** and machinery [IS: 8133 – 2021] **conform** 

Tractors and machinery for agriculture and forestry, powered lawn and garden : Conforms equipment – Symbols for operator controls and other displays Part 2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) – 2006 (Reaffirmed Year 2019)] and IS: 6283 (Part-2) – 2007 (Reaffirmed Year 2019)]

x) Agricultural Tractors and Machinery-Lighting device for travel on public roads : Conforms (IS:14683-1999) (Reaffirmed Year 2019)]

#### 6.4 Salient Observations:

#### 6.4.1 Laboratory tests:

### 6.4.1.1 Hydraulic performance test

During the lifting capacity test at couple frame, the angle of rotation of mast was observed 8.8 degree over the full range of lift against the minimum requirement 10 degree as per IS 12224:1987 (reaffirmed year 2019). This should be looked into for necessary corrective action.

During hydraulic performance test, cumulative drop in the height of lower link was observed as 110 mm against the requirement of 50 mm (max). Even though this parameter is categorized as 'non-evaluative', as per IS: 12207-2022, yet for the sake of improvement it would be advisable to look into the matter to make it conforming to the requirement.

#### 6.4.1.2 Three-point linkage:

The dimensions viz. width of ball of lower hitch point and Lateral distance from lower hitch point to centre line of tractor does not meet the requirements of IS: 17231-2019. This should be looked into for corrective action.

#### 6.4.1.3 Linkage geometry

During linkage geometry test, despite having only one hole at lower links, it was observed that lower links were fouling in fully closed position of lift rod. This should be looked into for corrective action.

#### 6.4.1.4 Operator's seat:

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

- Provision for adjustment of driver's mass is observed 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 210 mm against the requirement of 265 to 385 mm.
- iii) Vertical distance of SIP from foot rest was observed as 685 mm against the requirement of 450 to 520 mm.

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- iv) Lateral distance of center of clutch pedal from SIP was observed as 340 mm against the acceptable limit of 75 to 300 mm.
- v) Lateral distance of SIP from outer brake pedal was observed as 410 mm against the requirement of 380 mm (max.).

Therefore, all of the above should be looked into for necessary corrective action.

#### 6.4.1.5 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) -2018.

- i) Vertical retainers on inner side of clutch pedal are not provided.
- ii) Width of the step is observed as 190 mm against the minimum requirement of 200 mm
- iii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

#### 6.4.1.6 PTO master shield:

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

#### 6.4.1.7 Identification of hand control by color coding:

- i) The color of machine ground motion controls such as engine speed control, transmission control, parking brake was observed as black. It does not meet the requirement of IS 8133:2021. It should be looked into for corrective action to meet the requirement of relevant IS.
- ii) The function control i.e. PTO engaging lever was observed as black. It does not meet the requirement of IS 8133:2021. It should be looked into for corrective action to meet the requirement of relevant IS.

#### 6.4.1.8 Location of operation of controls:

 Engine stopping mechanical control is located within 380 mm of engine start control which does not meet the requirement of IS 8133:2021. It should be looked into for corrective action.

## 6.4.1.9 Shape and working clearance for hand control:

i) The working clearance around controls was measured as 25 mm among PC & DC lever of Hydraulic. It does not meet the requirement of IS 12239:1999 (Part- II). It should be looked into for corrective action.

#### 6.4.1.10 Specifications of tractor:

- i) Cumulative drop in height of hydraulic lift was observed as 110 mm against the requirement of 50 mm (max.)
- ii) Engine oil change period in specification is mentioned as 250 hours of operation whereas, in operator's manual it is mentioned as after every 300 hours of operation. It should look into for necessary corrective action.
- iii) Paper element change period is mentioned as 'NA' in specification provided by applicant. Whereas in operator's instruction book it is mentioned as it should change after 500 hrs of operation. It should be looked into for corrective action.
- **iv)** Other track width of drive wheel is mentioned as 'NA' in the specification sheet whereas practically it is possible to change the rear trackwidth of tractor. It is recommended to provide minimum and maximum range of trackwidth.

### 6.5 Maintenance / Service Problems:

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

#### 6.6 Recommendation with regard to safety on tractor:

- i) Color codes on illuminated display has not been provided as per the requirement as laid down in IS: 6283 (Part-2):2007.
- ii) 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.

Above parameters should be looked into for necessary corrective action.

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6.7 Adequacy of Literature supplied with machine:

- 6.7.1 The following literatures were supplied with the test tractor for reference during the test: -
  - Operator's instruction book for TAFE, MF 244DI tractors model.

b) Parts book for TAFE, MF 244DI tractors model.

- c) Workshop service manual for TAFE, MF 244DI tractors model.
- 6.7.2 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:

Safe hitch height while using trailer.

Running – In duration mentioned as 36 hours in English language and 50 hours in Hindi. It should be looked into for necessary corrective action. Moreover, running in hours in the operator's manual which is not matching with the duration given in application. It should be looked into for necessary corrective action.

## TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA TESTING AUTHORITY

B.N. DIXIT AGRICULTURAL ENGINEER	B.
R.P. PANDEY SENIOR INSTRUMENTATION ENGINEER (TESTING HEAD)	Jandey
Dr. P.P.RAO DIRECTOR	PPLao

Draft Test Report compiled by V. S. Shinde, Senior Technical Assistant.

## 7. APPLICANT'S COMMENTS

Para No.	Our reference	Applicants' comments
7.1	6.4.1.1, 6.4.1.2, 6.4.1.3, 6.4.1.4,	Parameter will be studied and necessary
	6.4.1.5, 6.4.1.6,6.6, 6.7.2.	corrective action will be initiated.

<u> ANNEXURE - I</u>

## TRACTOR RUN HOURS DURING TEST

Α.	LABORATORY AND TRACK TESTS:	HOURS
1,	Running-in	The applicant has declared that it has already been conducted at their workplace.
2.	PTO performance test	12.2
3.	Power lift and hydraulic pump performance test	2.2
4.	Drawbar performance test	3.0
5.	Brake performance test	2.2
6.	Nominal speed test	0.6
В.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	6.5
	TOTAL:	26.7