प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1746/2277/2023

INITIAL COMMERCIAL TEST REPORT माह/Month : June, 2023

Application Reference No. 28/2022-23/77

(यह परीक्षण रिपोर्ट 30/06/2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30/06/2028)



Make of Agricultural Tractor: TAFE

Model : MF 9563

Manufactured by : M/s Tractors and Farm Equipment Limited,

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

Chennai - 600 034 (T.N.)



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

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T(I&P) dated 28.07.2022, that since 15th 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: June Test Report No.: T-1746/2277/2023 Year: 2023



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

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CENTRAL FARM MACHINERY TRAINING AND TESTING INSTITUTE - BUDNI

T-17/6/	2277/2023	TAFE, MF 9563	3 TR	RACTOR - INITIAL COMMERCIAL TEST
1-17-40/2		THIS TEST	RE	EPORT IS VALID UPTO: 30/06/2028
[C]	Tractor man	nufacturer's name and	:	M/s Tractors and Farm Equipment Limited, Post Box No. 3302, Old – 35 (New-77) Mahatma Gandhi Road, Nungambakkam, Chennai – 600 034 (T.N.)
[D]	Location of	tractor assembly	:	 i) M/s Tractors and Farm Equipment Limited Kalladipatti Plant, 10/205, Kalladipatti (PO), Pin – 624 201, Dindigul Dist., (T.N.) ii) M/s Tractors and Farm Equipment Limited Doddaballapur Plant Plot No. – 1, KIADB Industrial Area, Doddaballapur, Bengaluru - 561 203 (KA)
[C]	Submitted f	or test by (Applicant)	:	The Manufacturer
[C]	Selected fo	r test by	:	The Ministry vide OM No. 13-17/2021 - M&T (I&P) 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 rur	•	:	At manufacturer's works
[D]	Duration of -Engine	running-in:		12
	-Engine -Transmissi	ion	:	16
[C]	Location of		:	Government of India, Central Farm Machinery Training and Testing Institute, P.O Tractor Nagar, BUDNI – 466445 (M.P.), INDIA
			101	IS OF TRACTOR
1.1 1.1.1	Identification Denominat			
[C]	Make of tra		:	TAFE
[C]	Model (trad	e name)	:	MF 9563 Rear Wheel Drive, Standard Agricultural Tractor.
[C] [C]	Type Month & ve	ar of manufacture	•	04/23
[D]	Country of o		:	India
1.1.2	Numbers:			
[D]		o. of prototype	:	MEA3B5F3KN1393549
[C]	Serial No.		:	MEA3B5F3DP1416305
1.2 [D]	Engine: Manufactur	er's address	:	 (i) No. 861, 862, Anna Salai, Bordar Thottam, Triplicane, Chennai – 600 002 (ii) No.1 Kaliya Pillai Street, Mathuaim Pettai road, Kumbakonam, Tamilnadu – 612 001 (iii) Simpsons, Sembiam Estate, Perambur, Chennai – 600 011
[C]	Make		:	Simpsons & Co. Ltd.
[C]	Model		:	TREM IV SJV3259-F53
[C]	Туре		:	Four stroke, liquid cooled, turbo charged, common rail, direct injection, diesel engine.
[C]	Serial No.		:	SJV3259-F5304760000043

TAFE, MF 9563 TRACTOR - INITIAL COMMERCIAL TEST

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

6.1 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: 12207-2022 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

SI. No.	Ch	aracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirem- ents (Yes/No)
1		2	3	4	5	6	7
				inistry's Office Memorandum	No. 13-17/	2021-M&	T (I&P)
		d 28 th of July, 2	2022).				
6.1.1		Performance:				T	
а)	unde (kW)	mum power r 2 h test, (Natural ent condition)	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	39.5 (D)	40.0	Yes
b)		er at rated ne speed,	Non Evaluative	-do-	34.5 (D)	34.8	Yes
c)	consi	ific fuel umption sponding to mum power, Vh)	Evaluative	Should not be more than 10% of declared value.	265 (D)	230	Yes
d)	crank (Nm)	ralent kshaft torque,	Non Evaluative	± 8%	275 (D)	258.3	Yes
e)	perce		Evaluative	Should be min. 12%	12 (D) 12 (R)	71.1	Yes
f)		mum operating		^o 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)	127	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)	112	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	2.30 Maximum (R)	0.22	Yes
h)	Smol	ke 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). 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 (R)	0.03	Yes

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1		2	3	4	5	6	7
6.1.2	Dra	wbar performaı			-		1
a)	Max with cor 15 slip	x. drawbar pull n ballast responding to percent wheel , (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	21.00 (D)		Not appli- cable
b)	with core	x. drawbar pull nout ballast responding to percent wheel , (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.	17.00 (D) 17.30 (R) Minimum	19.98	Yes
c)	pov	ndard ballast,	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.	32.00 (D) 32.0 (R) Minimum	33.5	Yes
d)	trar	ximum nsmission oil nperature, (°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)	106	Yes
6.1.3		wer lift and hydr					
a)	1)	ximum lifting cap At hitch points	acity througho Evaluative	ut the range of lift, (kN): Should not be less than 90% of declared value.	16.5 (D) 14.85 (R) Minimum	17.70	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.	10.0 (D) 9.41 (R) Minimum	15.05	Yes
b)	the point of the each intended	ximum drop in height of the ht of application the force after the 5 minutes erval for a total ation of 30 nutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm.	50 (D) Maximum	235	No

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1	2	3	4	5	6	7
6.1.4	Brake performance	_	-			
a)	·	•	orce, equal to or less than 600) N on brake	nedal wi	th road
aj	ballast, (m):	distance at a re	orec, equal to or less than ooc	7 IV OII BIAKC	pedai wi	iii ioad
	1) Cold brake	Evaluative	10	10 (R)	6.41	Yes
	2) Hot brake	Evaluative	10	10 (R)	6.52	Yes
b)	Whether parking	Evaluative	Yes / No	Yes	Yes	Yes
,	brake is effective					
	at a force of 600 N					
	at foot pedal (s) or					
	400 N at hand					
	lever					
6.1.5	OPTIONAL TESTS		for any and analysis do	. •	•	
		as not applied	for any optional tests, there	etore no opt	ionai tes	ts was
6.4.6	conducted.					
6.1.6	Safety features : Guards against	Evaluative	Belt drives, pulleys,	Meets	the	Yes
a)	Guards against moving and hot	⊏valualive	silencer, hydraulic pipes	require		162
	parts		[As per IS 12239 (Part2)]	require	HOIR	
b)	Lighting	Evaluative	As per CMVR	Confo	rms	Yes
	arrangement	_ : 3		2011101		
c)	Seating	Non	Should meet the	Does	not	No
	requirements	Evaluative	requirements of IS: 12343	meet	the	
	(Tractors having		(As amended from time to	require	ment	
	more than 1150		time)			
	mm rear track					
- 1	width)	Niere	Observation and the	Masta	41	\/
d)	Technical	Non Evaluative	Should meet the requirements of IS: 4931	Meets		Yes
	requirements for PTO shaft	Evaluative	(As amended from time to	requirer	пеш	
	1 10 Shart		time)			
e)	Dimensions of	Non	Should meet the	Does	not	No
	three point linkage	Evaluative	requirements of IS: 4468	meet		
			(Part-I) (As amended from	require	ment	
			time to time)			
f)	Specifications of	Non	Should meet the	Meets		Yes
	linkage drawbar	Evaluative	requirements of IS: 12953	requirer	ment	
			(As amended from time to time)			
a)	Swinging drawbar	Non	Should meet the	Not prov	<i>i</i> ided	Not
g)	(wherever fitted)	Evaluative	requirement of IS: 12362	Νοι ριο	nueu	appli-
	(Wildlovol Intod)	Lvaldativo	(Part 3) (As amended from			cable
			time to time)			
h)	Audible warning	Evaluative	If tractor travel speed in	Not fit	ted	Not
	signal on tractor		reverse gear exceeds 20			appli-
			kmph, an audible warning			cable
			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.			
			uispiayeu.			1

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1		2	3	4	5	6	7
6.1.7	Lab		_	f labelling plate):			<u> </u>
	1)	Make	Evaluative	Should conform to the	Т	AFE	Yes
	2)	Model	Evaluative	requirements of CMVR		9563	Yes
	3)	Month &	Evaluative	along-with declared value		04/23	Yes
	'	Year of		of PTO in kW, Specific fuel			
		manufacture		consumption (SFC)			
	4)	Engine	Evaluative	corresponding to	SJV32	59-F53047	6 Yes
		number		maximum power in g/kWh	0	000043	
	5)	Chassis	Evaluative	and year of manufacture in	MEA3	B5F3DP14	Yes
		number		numerical form		16305	
	6)	Maximum	Evaluative	MM YY	3	39.5	Yes
		PTO power,		Digit 01-12 in box No. 1 for			
		(kW)		MM will represent the			
	7)	Specific fuel	Evaluative	month and next two digit in		265	Yes
		consumption,		the box No. 2 for YY will			
		(g/kWh)		represent the year of			
				manufacturing.			
6.1.8	Lite	erature (Submis	sion to test ag				
(a)	Оре	erator manual	Evaluative	The printed literature in		vided	Yes
(b)	Par	ts Catalogue	Evaluative	booklet form should be	Pro	vided	Yes
(c)		rkshop/	Evaluative	provided as per IS 8132	Pro	vided	Yes
	Ser	vice manual		and should submit along			
				with the test sample.			
6.1.9				tructures (ROPS):		I	
		tractor having	Evaluative	ROPS should meet the	Not	fitted	Not
	moi			requirement of IS:11821 or			applicable
	mm			OECD code or equivalent			
0.4.40	wid		Fralmatina	International Standard.	Dra	ام مام	Vaa
6.1.10		ndard	Evaluative	Trailer hitch, front tow	Pro	vided	Yes
	ACC	essories		hook, linkage drawbar			
				should be provided with tractor			
6.1.11	Δοσ	essories	Non	Ballast weight, if fitted,	Dro	vided	Yes
0.1.11					FIU	viucu	169
	(Op	iionai)	Lvaldative				
	(op	tional)	Evaluative	should meet the requirement of CMVR			

6.2	CATEGORY C	F BREAKDOV	VNS / DEFECTS (As per clause 5.0	of IS:12207-202	22):
S. No.	Category of break-downs	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	As observed	Whether meets the Requirement (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 2 major breakdowns and neither of them should be of repetitive nature.	None	Yes
3.	Minor	Evaluative	There are not more than 5 minor defects during the test and neither of them should of repetitive nature.	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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6.3 Conformity with following IS:

 Guidelines for declaration of power and specific fuel consumption and: Conforms 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 : Conforms revision) [IS:4931-1995 (Reaffirmed Year 2019)]

iii) Agricultural wheeled tractors – Rear mounted three-point linkage: Part 1 : **Does not** Categories 1, 2, 3 & 4 (fourth revision) [IS:4468(Part-I) – 1997 (Reaffirmed in 2022)]

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 : Does not tractors and machinery [IS: 8133 - 2021] conform

ix) Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part2

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:

PTO performance test:

- i) During varying speed at full load test under both natural and high ambient conditions, the minimum speed below 15% of engine rpm corresponding to max. torque could not be recorded as the engine starts fluctuation in speed & engine oil pressure goes below the minimum permissible pressure of 1.5 kg/cm² as declared.
- ii) During the PTO performance test, it was observed that the power recorded under high ambient condition is slightly higher than the observation recorded under natural ambient condition, which is not as per normal trend. Upon this, the applicant vide letter no. NIL dated 29.05.2023 stated that in CRDi engines required fuel delivery is maintained at all ambient temperatures as per the Simpson diesel engine manual. The manual, vide page no. 31 indicates that "In CRDi engines, calibrated fuel delivery is ensured at all ambient temperatures." The applicant further requested not to proceed for repeat test, as the observations are within their acceptable range, which was agreed.

6.4.1.1 Power lift & hydraulic pump performance test:

During maintenance of lift load test, cumulative drop in the height of lower links was measured as 235 mm against the maximum permissible limit of 50 mm which does not meet the requirement of IS: 12207-2022. 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.

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6.4.1.2 Three-point linkage:

The following parameters does not meet the requirements of IS: 4468 (Part-I) – 1997 and needs to be looked into for necessary corrective actions:

- i) The dimensions viz. diameter of hitch pin hole & width of ball 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.
- ii) The distance from end of power take-off to centre of lower hitch point has been measured as 610 mm against the requirement of 450 to 575 mm.

6.4.1.3 Operator's seat:

The following parameters do 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) Longitudinal distance from SIP centre of differential lock pedal has been measured as 200 mm against the requirement of 410 to 720 mm.
- iii) Vertical distance from SIP to centre of accelerator pedal has been measured as 515 mm against the requirement of 230 to 460 mm.
- iv) Vertical distance from SIP to centre of steering control wheel has been measures as 185 mm against the requirement of 265 to 385 mm.
- v) Vertical distance from SIP to foot rest has been measured as 555 mm against the requirement of 450 to 520 mm.

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

6.4.1.4 Operator's work place:

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

- i) A vertical retainer on inner side of clutch pedal has not been provided.
- ii) Spark arresting device has not been provided in the exhaust system.

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

6.4.1.5 PTO master shield:

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

6.4.1.6 Specification of Tractor

Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification	As per Operator's manual
		Sheet	
i.	Brand name of coolant	Total Oil India Pvt. Ltd	WT Supra (P. No. 30)
ii.	Transmission oil capacity, (I)	42.0	41.3 (P. No. 74)
iii.	Transmission filter change,	Not applicable	Suction oil filter to be changed at first 50 hours & every 500 hours. Return oil filter changed at first 100 hours & every 500 hours. (P. No. 144)

6.5 Maintenance / Service Problems:

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

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6.6 Recommendation with regard to safety on tractor:

- i) Identification of hand controls by colour has not been provided as per the requirement as laid down in Table 5 of IS: 8133-2021.
- ii) The working clearance between draft control lever and RHS mudguard; between draft control lever & position control lever have been measured as 30 mm against the minimum requirement of 70 mm as per the requirement of IS: 12239 (Part II) 2019.

Above parameters should be looked into for necessary corrective action.

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: -
 - a) Operator Instruction Book for "TAFE, MF 9563" tractor model.
 - b) Parts Book for "TAFE, MF 9563" tractor model.
 - c) Service manual for "TAFE, MF 9563" tractor model.
- 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:
 - Recommended ballast masses for different operations.
 - ii) Tyre size details

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

C. V. CHIMOTE TEST ENGINEER	Murmesuccest
A. K. UPADHYAY DIRECTOR (I/C)	

Draft Test Report compiled by Partha Lodh, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
7.1	6.3 (iii, v, vi, vii, vii)	Parameters will be studied and necessary corrective action will be initiated.
7.2	6.4.1.2 (i, ii), 6.4.1.3 (i, ii, iii, iv, v) 6.4.1.4 (i, ii), 6.4.1.5, 6.4.1.6 (i), 6.6	Parameters will be studied and necessary corrective action will be initiated.

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ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	12.8
3.	Power lift and hydraulic pump performance test	3.6
4.	Drawbar performance test	3.5
5.	Brake performance test	2.0
6.	Nominal speed test	0.8
В.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	2.8
	TOTAL:	25.5