व्यावसायिक परीक्षण रिपोर्ट (प्रथम बैच परीक्षण रिपोर्ट) संख्या / No. : T-1453/1980/2020 COMMERCIAL TEST REPORT (First Batch Test) माह / Month : July, 2020

(यह परीक्षण रिपोर्ट 31/07/2025 तक वैध है। / THIS TEST REPORT IS VALID UP TO : 31/07/2025)



DEUTZ-FAHR, AGROLUX 75 PROFILINE TRACTOR



सत्यमव जयत

भारत सरकार किसान कलाण मंत्रात

कृषि एवं किसान कल्याण मंत्रालय कृषि, सहकारिता एवं किसान कल्याण विभाग मशीनीकरण एवं प्रौद्योगिकी प्रभाग

GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(Department of Agriculture, Cooperation & Farmers Welfare, Mechanization & Technology Division) केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान ट्रैक्ट्र नगर, बुदनी (म.प्र.) ४६६ ४४५

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE (An ISO: 9001 - 2015 Certified Institute)

Tractor Nagar, Budni (M.P.) 466 445

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Telephone: 07564 - 234729, 234743



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The "DEUTZ-FAHR, AGROLUX 75 PROFILINE" tractor had undergone "Initial Commercial Test" at this Institute and a test report No. T- 882/1397/2013 released on August, 2013. Now the applicant has submitted application for Batch testing of "DEUTZ-FAHR, AGROLUX 75 PROFILINE" tractor.

All necessary tests as per Table-1 of clause 6.0 of IS: 5994 - 1998 (Reaffirmed in 2014). were carried out and test report released as under.

The applicant has informed vide letter no. ATE/019 dated: 09.03.2020 last cut off tractor chassis number and engine serial number of tractor model "DEUTZ-FAHR, AGROLUX 75 PROFILINE " tractor generated on production line as under:-

S. No.	Parameters Modified	Chassis Number	Engine Number		
1.	Re-declaration of hydraulic lifting capacity at hitch point		I FILL CO.		
 Re-declaration of maximum operating temperature of engine lubrication oil 		M1TL792RDHE000073	1000.3WTI1E3		
3.	Audible warning signal	MILITASKDHE000013	*48557*H19		
4.	Specification of PTO shaft				
5.	Labelling plate				

Manufacturer

M/s. Same Deutz-Fahr India (P) Ltd 72, Sipcot Industrial Complex,

Ranipet - 632 403 (Tamil Nadu)

Test requested by (applicant)

The Manufacturer The testing authority

Selected for test by Place of running-in

At Applicant's works

Duration of sald running-in (h):

- Engine

Nil

- Transmission

25

Method of Selection

: The test sample was selected randomly out of five tractors from the production line by the representative of testing authority.

Tractors chassis serial number made available for random selection:

M1TL792RDHE000069 i)

ii) M1TL792RDHE000070 M1TL792RDHE000071

iii) M1TL792RDHE000072

M1TL792RDHE000073

1. SPECIFICATION

1.1 Tractor:

Make

Deutz-Fahr

Model Type

Agrolux 75 Profiline

Four wheeled, 4WD, unit construction, standard ,Agricultural tractor.

Year of manufacture 8 08 19

M1TL792RDHE000070

Chassis number

India

Country of origin

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1		2	3	4	5			6	7
4.1.10	Safah	features :					Macd	s the	
al	Guard		Evaluative	Belt drives, p hydraulic pipes ((Part2)	ulleys, si (As per IS	12239	requir	rement	Yes
b)	Lightir	ng arrangement	Evaluative	As per CMVR			requi	ts the rement	Ye
c)	Seatin (Track than track)	ors having more 1150 mm rear	Non Evaluative	IS: 12343 (As time to time)	Should meet the requirements of IS: 12343 (As amended from time to time)		Mee requi	ts the	N
d)	Techn	nical requirements O shaft	Evaluative	Should meet the 1S: 4931 (As an to time)	nendad fro	om time	requi	its the irement	Ye
e}		nsions of three linkage	Non Evaluative	Should meet the IS: 4468 (Part from time to time	(-1) (As ar (e)	monaea	requ	ets the irement	,
f)	Spec linkag	ifications of ge	Evaluativo	Should meet th IS: 12953 (As time to time)	no requirer s annende	ed from	requ	ets the iirement	Y
g)	Swin (whe	ging drawbar rever fitted)	Evaluative	Should meet of IS: 1236 amended from	2 (Part	(As	Not	provided	a
h)	1)	Maximum travelling speed at rated engine speed in reverse gears, Kmph	Evaluative	Should not ex 20 Kmph	ceed			33 kmph	,
	2)	Controlled As soon as the develop open		on tractor ne safety eration of brought in ner /dealer g on this	warr p	udible ning signa rovided			
14.1.11	Lab	elling of tractors	Provision o	fiabelling plate):			- 41.15	-
14.1.11	1)	Make	Evaluativo	- I Stigula Gutiliuu	11 (1) 1.10		<u>UTZ-I</u>	-AHK	+
	2)	Model	Evaluative	TO PROPERTY OF THE PROPERTY OF	maximum	Agro	GV XD	Profiline	-+
	3)	Month & Year of	Evaluativo	DEO Dever in	i kW and		8	19	
		manufacture	Evaluativ		le	1000.3W	/TI1E3*	513 2 7°G1	9_
	4}	Engine number Chassis number		-	YY	M1TL	792RD	HE00007	0
	5)	Maximum PTO	Evaluativ	e Digit 01 – 12 in	box No.1		46.	7	
	7)	power.(kW) Specific fuel consumption, (g/kWh)	Evaluativ	tor MM will rep months and	next two next two io.2 for YY the year of		29	8	
14.1.1	2 Die	scard limit for:		1 1	God				
(a) Cylinder bore diameter, (mm)		Evaluativ	by the	10.	5.1(D)	104.99	8 to 105.0	29	
(b)	Cli	earanco betwee stori & cylinder lin		-1.	ted 0.4	2 (D)	0.12	3 to 0.138	}
(c)	el Pis ma	s <u>kirt, (mm)</u> ston diameter at skir	rt, Non Evaluati	literature	1	04.68	104.89	1 to 104.8	397

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	-
	- 1
ets the virement	Yes
ets the uirement	Yes
oes not eets the uirement	No
eets the juirement	Yes
eets the quirement	Yes
eets the quirement	Yes
t provided	Not appli -abli
).93 kmph	Yes

Yes

Audible ming signal

provided

-FAHR	Yes
5 Profiline	Ye
19	Yes
*51327*G19	Ye
DHE000070	Yel
.7	Ye
98	Ye
	- 3

98 to 105.029	Ye
23 to 0.138	Ye
91 to 104.897	Y

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100

(n)

(1)

300

18.1.11

183.34

18.1.15

74.1.10

MI No.

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	2	3	4	5	6	7
Ri	ng end gap (mm):					
	Top comp. ring.		-do-	1.5 (D)	0.60 to 0.65	Yes
2 comp. ring.		Evaluative	-do-	1.5 (D)	0.50	Yes
	Oll ring.		-do-	1.5 (D)	0.50 to 0.55	Yes
Ri	ng groove cleara	nce (mm):				
	Top comp. ring.		-do-	0.25 (D)	Tapered	Yes
	2" comp. ring.	Evaluative	-do-	0.25 (D)	0.052 to 0.053	Yes
	Oil ring.		-do-	0.15 (D)	0.043 to 0.053	Yes
CI	earance of main b	earings (mr	n):			
	Diametrical glearance	Evaluative	i vel	0.40 (D)	0.074 to 0.100	Yes
	Crunkshaft end	Evaluative	-do-	0.50 (D)	0.10	Yes
01	earance of big en	d bearings,	(mm):			
	Diametrical	Evaluative	-do-	0.40 (D)	0.070 to 0.086	Yes
	Axial	Evaluative	-do-	0.80 (D)	0.20	Yes
MI	pin and bush.	Non Evaluative	-do-	0.85 (D)	0.022 to 0.037	Yes
6/48	pln and bush,	Non Evaluative	-do-	0.85 (D)	0.149 to 0.170	Yes
D	terature (Submis	sion to test	agency)			
	porator manual	Evaluative		Provided	Provided	Yes
	rts Catalogue	Evaluative	Provided /	Provided	Provided	Yes
W	orkohop/	Evaluative	Not Provided	Provided	Provided	Yes
Fi	ment of Rall Over	Protective S	tructures (ROPS):	-10.		
Fi	tractor having Evaluative (than 1150 mm track width		ROPS should requirement of OECD code or International Stan	equivalent	Not fitted	Not applic -able
Accommories Evaluative		Trailer hitch, fror linkage drawbar provided with trac	should be	Provided	Yes	
	cessories ptional)	Non Evaluative	Ballast weight, if the meet the requience CMVR	fitted, should pirement of	Provided	Yes

ATEGORY OF B	REAKDOWN\$/	DEFECTS (As per clause 5.6	of IS:12207-	2019):
Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirem- ents (Yes/No.)
chical	Evaluation	No critical broakdours	None	Vos

No critical breakdown Not more than one and Major neither of them should be Yes Evaluative None repetitive in nature Not more than three and BARRIOR Evaluative frequency of each should not None be more than two. In no case, the total number of breakdowns should exceed Total breakdowns Evaluative four, that is, (1 major + 3 None Yes minor) OΓ 4 minor breakdowns.

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Salient Observations: 14.3

Laboratory tests: 14.3.1

PTO Performance Test: 14.3.1.1

- The maximum power in case of previous & present sample were observed as 49.3 & 45.0 kW respectively, against the declaration of 46.7 kW, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.
- The specific fuel consumption corresponding to maximum power in case of previous & present sample was recorded as 286 & 276 g/kWh against respectivel the declaration of 298 g/kWh, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.

The maximum equivalent crankshaft torque was recorded as 281,5 Nm against th declaration of 295 Nm, which meets the requirement of IS: 12207-2019 with regar

to tolerance limit. The backup torque is 44.3 %, which meets the requirement of IS: 12207-2019 with regard to tolerance limit.

Under high ambient condition test the coolant temperature was reaching to 110 $^\circ$ against the declaration of max. coolant temperature 110° C.

14.3.1.2 Drawbar performance test:

- Maximum drawbar pull in case of previous & present sample with unballa corresponding to 15 percent wheel slip, (kN) was recorded as 23.01 kN & 24.0 kN respectively against the minimum requirement of 17.71 kN, which meets to requirement of IS: 12207-2019 with regard to tolerance limit.
- Maximum drawbar power with unballast in case of previous & present sample w recorded as 41.2 kW & 39.9 kW respectively against the minimum requirement 36.0 kW in case of present sample, Which meet the minimum requirement of 12207-2019.
- During ten hours drawbar performance test under ballasted condition, creeping LHS & RHS tyre over the rim were observed as 20 mm & 05 mm. This should looked into for necessary corrective action.

14.3.1.3 Hydraulic performance test:

- Maximum lifting capacity throughout the range of lift at hitch point and stand frame was recorded as 15.83 kN & 14.62 kN respectively against the declaration 17.0 kN (re-declaration) & 11.8 kN respectively, which meets the requirement IS: 12207-2019 with regard to tolerance limit.
- Maintenance / Service Problems: 14.4

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

Recommendation with regard to safety on tractor: 14.5

The following requirements, inter alia, may be considered for incorporation on the trace Longitudinal distance from SIP to center line of differential lock pedal.

Vertical distance from SIP to foot rest. ii)

- The working clearance between the position control and range selector lever mudguard and PTO clutch lever arc less than the requirement as per IS: 12 iii) (Part-2) - 1999.
- Fuel shut-off lever does not remain in stop position.
- iv) Provision for transport lock for loads on hydrautic lift. v)
- Provision of trailer hook locking device. vi)

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served as 49.3 nich meets the

ver in case of nst respectively IS: 12207-2019

Nm against the 2019 with regard

12207-2019 with

ching to 110 ° C

e with unballast .01 kN & 24.64 which meets the

sent sample war m requirement o equirement of IS

lition, creeping o n. This should be

oint and standar the declaration he requirement of

e test.

tion on the tractor pedal.

selector lever an t as per IS: 122

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16.0

18.6.1

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Adequacy of Literature supplied with machine:

The supplied literature was found adequate

- Use and Maintenance manual in respect of Agrolux 75 Profiline & Agrolux 80 Profiline tractor models.
- Workshop service manual for Agrolux 75 Profiline & Agrolux 80 Profiline tractor
- Spare Parts Catalogue for Agrolux 75 Profiline & Agrolux 80 Profiline tractor.

15. Citizen charter

est duration infler citizen charter	Duration of Test	Whether the report released within time frame given in the citizen charter	Remark
10 Months	11 Months (August, 2019 to June, 2020)	No	Delay due to covid -19 pandemic & the manufacturer has held up the components / assembly inspection of the tractor.

TESTING AUTHORITY:

ESTR. No.

RAGHUWANSHI AURICULTURAL ENGINEER

C.V. CHIMOTE TEST ENGINEER

18 September 18 Se

16. APPLICANT COMMENT'S

Our reference	Applicant's comment
14.5 (vii)	Safety locking provision available for rear hook with pin & linch pin arrangement -positive locking.



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ANNEXURE- I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	25,0
2.	PTO performance test	11.5
3.	Drawbar performance test	15.3
4.	Power lift and hydraulic pump performance test	8.0
5.	Brake test	1.5
6.	Noise measurement	1.8
7.	Mechanical vibration test	1.0
8.	Theoretical speed test	3,5
В.	Haulage Test	4.6
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	4.8
	TOTAL	69.8