

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No: PT-129/1036
माह / Month: July, 2019
Validity: 30.06.2024

COMMERCIAL TEST (SECOND BATCH TEST)



GREAVES GS 15 DIL-S POWER TILLER



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation and Farmers Welfare

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लदिन्ने - 515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Tele./FAX: 08551-286441

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Manufacturer : M/s. Ghangzhou Dongfeng Agriculture Machinery Group Co. Ltd. (DFAM),
Changzhou Tractor Plant, No 10,
Xinye Road, Changzhou, Jiangsu,
China - 213012.

Applicant : M/s. Greaves Cotton Limited,
72, SIPCOT Industrial Complex,
Ranipet, Tamil Nadu - 632 403, **India**.

Indigenous/ Imported : **Imported**

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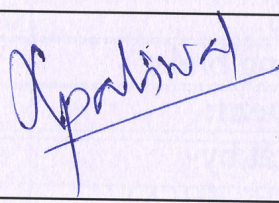
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1	2	3	4
	-Specific fuel consumption corresponding to maximum power, (g/kWh)	: 256	264
	-Maximum equivalent crankshaft torque, (Nm)	: 57.7	53.9
	-Back-up torque, (%)	: 9.28	7.99
	Maximum temperature, (°C):	:	
	-Engine oil	: 121	97
	-Coolant (water)	: 118	109
	-Exhaust gas	: 565	710
	-Air intake	: 45	45
	Lube oil consumption, (g/kWh)	: 0.61	1.04
19.2.2	Rotary shaft performance:		
	-Maximum power, (kW)	: 9.5	9.1
	-Specific fuel consumption corresponding to maximum power at rated engine speed, (g/kWh)	: 323	284
	-Maximum rotary shaft torque, (Nm)	: 488	455.2
	Maximum operating temperature of rotary transmission oil, (°C)	: 81	60
19.2.3	Drawbar performance:		
	Maximum drawbar power, (kW)	: 4.8	4.7
	Maximum drawbar pull, (KN)	: 3.3	3.48
	Maximum transmission oil temperature, (°C)	: 56	54
19.2.4	Parking Brake:		
	Maximum breaking device control force, (N)	: 268	531
	Efficacy of parking brake	: Effective	Effective
19.2.5	Noise measurement:		
	Maximum noise at by-standard's position, dB(A)	: 72	80
	Maximum noise at operator's ear level, dB(A)	: 96	96

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1	2		3	4
19.2.6	Air cleaner oil-pull-over test:			
	Maximum oil pull over (%)		0.22	0.15
19.2.7	Mechanical vibration:			
	Maximum amplitude of vibration at, (micron):			
	-Gear shifting lever	:	124	139
	-Steering handle grip	:	227	220
	-Rotary shaft speed change lever	:	272	196
	-Steering clutch lever	:	434	307
	-Accelerator lever	:	342	347
19.2.8	Haulage test:			
	-Gross mass of trailer, (tones)	:	1.5	1.5
	-Av. traveled speed, (kmph)	:	18.62	19.12 to 19.26
	-Distance traveled per liter of fuel consumption, (km)	:	15.52	13.09 to 13.79
	-Av. fuel consumption, (cc/km/tonne)	:	43.00	48.34 to 50.92
19.3	Maintenance/service problems:	:	None of the problems was observed in the previous sample.	None of the problems was observed in the present sample.
19.4	Adequacy of literature:	:	Operation/Maintenance manual and spare parts list of power tiller in English and operation & maintenance manual & spare parts list of engine in English	Maintenance manual and spare parts list of power tiller in English and operation & maintenance manual & spare parts list of engine in English

TESTING AUTHORITY:

RAKESH PALIWAL AGRICULTURAL ENGINEER	
Dr. P.P. RAO DIRECTOR	