

व्यावसायिक परीक्षण रिपोर्ट

संख्या/ No.: SCH-06/2845/2022

COMMERCIAL TEST REPORT (VARIANT)

माह/Month: April, 2022

THIS TEST REPORT VALID UP TO : 30th April, 2029



**CNH INDUSTRIAL (INDIA) PRIVATE LIMITED,
'CASE IH AUSTOFT 4000 SUPER PLUS'
SELF PROPELLED SUGARCANE HARVESTER**



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि एवं किसान कल्याण विभाग

Department of Agriculture and Farmers Welfare

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Northern Region Farm Machinery Training and Testing Institute

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[ISO 9001:2015 CERTIFIED]

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14. SELECTED PERFORMANCE AND OTHER CHARACTERISTICS

Sr. No	Characteristics		Requirement (R)		Observed	
			/		Base	Variant
			Declaration (D)			
		Base	Variant			
1	2		4		6	
I.	Prime mover performance					
a)	Max. power (absolute) average max. power observed during 2 hrs. Max. Power test in natural ambient condition, kW		Not provided	120 (D)	113.5	122.3
b)	Max. power observed during test after adjusting the no load engine speed as per recommendation of the manufacturer for field work, kW		Not provided	120 (D)	113.5	122.3
c)	Power at rated engine speed, kW (under natural ambient condition)		Not provided	115 (D)	103.7	115.5
d)	Specific fuel consumption corresponding to average maximum power under 2 h maximum power test, g/kWh.		Not provided	260 (D)	251	248.6
e)	Max. Smoke density (Bosch no.) at 80% load between the speed at max. Power & 55% of speed at max. power or 1000 rpm whichever is higher		As per central motor vehicles rules (CMV) rules (3.25 m ⁻¹) (R)		3.41	1.75
f)	Max. Crank shaft torque, (Nm) observed during the test after no load engine speed is adjusted as per manufacturer's recommendation for field work		Not provided	660 (D)	617	653.3
g)	Back up torque, %		7 % min. (R)		19.5	17.92
h)	Max. operating temperature, °C		Not provided	i) 120 (D) ii) 110(D)	i) 103.2	i) 105.1
	i) Engine oil ii) Coolant				ii) 98.6	ii) 97.1
i)	Lubrication oil consumption, g/kWh		Not exceeding 1 % of SFC at maximum power (high ambient) (R)		0.227	0.218

II. Mechanical vibration					
	a)	Operator's platform	120 µm max. (R)	20	64
	b)	Steering control wheel	150 µm max. (R)	60	91
	c)	Seat with driver seated	120 µm max. (R)	70	94
III. Noise measurement					
	a)	Max. ambient noise emitted by combine at by standers position, dB(A)	As per CMV rules (R)	97.9	87.8
	b)	Max. noise at operator's ear level, dB(A)	As per CMV rules (R)	88.3	92.2
IX. Safety requirement					
	a)	Guards against all moving parts/ drives and hot parts	Belt and chain drives, pulleys hydraulic pipes (Around operators work place) (R)	Provided	Provided
	b)	Lighting arrangement	As per CMVR (R)	Provided	Provided
	c)	Spark arrester in engine's exhaust in case of naturally aspirated engine	Essential (R)	Turbocharger in exhaust system is provided	Turbocharger in exhaust system is provided.
	d)	Rear view mirror	Essential (R)	Provided	Provided
	e)	Fire extinguisher	Essential (R)	Provided	Provided
	f)	Anti-slip surfaces at operator platform, ladder & proper gripping for the control levers.	Essential (R)	Provided	Provided
	g)	Working clearance around the controls	Essential 70 mm, min (R)	Not provided	Not provided
	k)	Labelling of control and gauges	Essential (R)	Provided	Provided

15. COMMENTS AND RECOMMENDATIONS



- 15.1** The change of observed power of base model & variant model is 7.75 percent. Observed max. power of variant model is 1.92 percent more than declared max. power which is within ±5 percent.
- 15.2** The vertical adjustment and backrest adjustment is not provided at operator's seat. It may be provided for operator's comfort.

15.3 Technical Literature

The following literature was submitted by applicant during testing.

- i) Operator manual
- ii) Part's catalogue
- iii) Service manual

TESTING AUTHORITY

G.R. AMBALKAR AGRICULTURAL ENGINEER	
Dr. MUKESH JAIN DIRECTOR	 21.04.2022

Test report compiled by: V. S. Shinde, Senior Technical Assistant

16. APPLICANT'S COMMENTS

Para No./ clause no.	Our reference	Applicants comments
4.2.8.1	16.1	We will provide alternate make for drive wheel as GOOD YEAR, APOLLO, BKT
	16.2	We will provide alternate RIM size as W15×28
4.2.8.2	16.3	We will provide alternate make for steered wheel as PIRELLI, Brazil, Allianz tyre India, MRF
	16.4	We will provide alternate tyre size as 10.5/65-16, 10 PR & 14 PR & 10-16.5, 10 PR
	16.5	We will provide alternate RIM for steered wheel as TECNOROAD, STEEL STRIPS WHEELS LTD., BWPL, W8 L × 16, W8 × 16, W8.25 × 16.5
4.2.12.1.2	16.6	We will provide alternate make for auxiliary pump/tandem pump as Parker, Brazil
15.2	16.7	We will look into to provide this vertical adjustment provision in future.