NEBRASKA TRACTOR TEST 2128 CABELA'S LM75 DIESEL 16 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
	MA	XIMUM	POWER	AND FUEI	CONSUMPTION
		Rateo	l Engine Spo	eed—(PTO spe	ed—541 rpm)
64.86	2203	4.01	0.433	16.18	
(48.36)		(15.17)	(0.263)	(3.19)	
		М	aximum Po [,]	wer-(1 hour)	
67.21	2050	3.98	0.415	16.88	
(50.12)		(15.07)	(0.252)	(3.33)	
RYING	POWER	R AND FU	JEL CONS	SUMPTION	
64.86	2203	4.01	0.433	16.18	Airtemperature
(48.36)		(15.17)	(0.263)	(3.19)	1
55.71	2226	3.60	0.452	15.49	71°F(22°C)
111 - 11		(13.61)	(0.275)	(3.05)	
(41.54)					
(41.54) 42.09	2244	2.83	0.471	14.87	Relative humidity
· /	2244	2.83 (10.71)	0.471 (0.287)	14.87 (2.93)	Relative humidity
42.09	2244 2269				Relative humidity 74%
42.09 (31.39)		(10.71)	(0.287)	(2.93)	
42.09 (<i>31.39</i>) 28.33		(10.71) 2.32	(0.287) 0.573	(2.93)	,
42.09 (31.39) 28.33 (21.12)	2269	(10.71) 2.32 (8.77)	(0.287) 0.573 (0.349)	(2.93) 12.22 (2.41)	74%
42.09 (31.39) 28.33 (21.12) 14.44	2269	(10.71) 2.32 (8.77) 1.71	(0.287) 0.573 (0.349) 0.828	(2.93) 12.22 (2.41) 8.47	74%

Maximum Torque 200 lb.-ft. (*271 Nm*) at 1649 rpm Maximum Torque Rise - 29.2% Torque rise at 1760 rpm - 26% Power increase at 2050 rpm - 3%

	Front W	heel Drive
TRACTOR SOUND LEVEL WITH CAB	Engaged dB(A)	Disengaged dB(A)
At no load in 11th(M3) gear	80.9	81.0
Bystander in 16th (H4) gear		80.6

TIRES AND WEIGHT

Rear Tires-No., size, ply & psi(kPa) Front Tires-No., size, ply & psi(kPa) Height of Drawbar Static Weight with operator-Rear - Front - Total

Tested Without Ballast

Two 16.9-30;6;16 (110) Two 11.2-24;8;20 (140) 21.0 in (535 mm) 3605 lb (1635 kg) 2680 lb (1216 kg) 6285 lb (2851 kg) Location of tests: Nebraska Tractor Test Laboratory, University of Nebraska, Lincoln Nebraska 68583-0832

Dates of tests: August 18 to September 3, 2015

Manufacturer: Tong Yang Moolsan Co. Ltd 2,3F, Daeyong B/D, 7, Eonju-ro 133-gil Kangnam-gu Seoul, Republic of Korea

FUEL, OIL and TIME: Fuel No. 2 Diesel **Specific gravity converted to 60°/60°F** (15°/15°C) 0.8415 **Fuel weight** 7.007 lbs/gal (0.840 kg/l) **Oil SAE** 10W30 **API service classification** CJ-4 **Transmission and hydraulic lubricant** Cabela Super tractor fluid **Front axle lubricant** SAE90 Gear oil **Total time engine was operated** 10.0 hours

ENGINE: Make Deutz Diesel **Type** four cylinder vertical with turbocharger and air to air intercooler **Serial No.** *11617745* **Crankshaft** lengthwise **Rated engine speed** 2200 **Bore and stroke** 3.622" x 4.331" (*92.0 mm x 110.0 mm*) **Compression ratio** 17.8 to 1 **Displacement** 178 cu in (*2925 ml*) **Starting system** 12 volt **Lubrication** pressure **Air cleaner** two paper elements **Oil filter** one full flow cartridge **Fuel filter** one paper element and sediment bowl **Fuel cooler** radiator for pump return fuel **Exhaust** DOC (diesel oxidation catalyst) integrated within an underhood muffler with vertical outlet **Cooling medium temperature control** one thermostat

ENGINE OPERATING PARAMETERS: Fuel rate: 27.6 - 28.9 lb/h (*12.5 - 13.1 kg/h*) **High idle:** 2285 - 2375 rpm **Turbo boost:** nominal 16.7 - 19.6 psi (*115 - 135 kPa*) as measured 18. 5psi (*128 kPa*)

CHASSIS: Type front wheel assist Serial No. *75CKH00020* Tread width rear 58.4" (1484 mm) to 74.4" (1890 mm) front 61.1" (1552 mm) to 70.4" (1788 mm) Wheelbase 86.1" (2188 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio Nominal travel speeds mph (km/h) first 0.20 (0.32) second 0.29 (0.47) third 0.42 (0.67) fourth 0.56 (0.90) fifth 0.66 (1.07) sixth 1.12 (1.82) seventh 1.38 (2.22) eighth 1.85 (2.97) ninth 2.12 (3.41) tenth 3.08 (4.95) eleventh 4.40 (7.09) twelfth 5.90 (9.49) thirteenth 6.78 (10.92) fourteenth 9.85 (15.85) fifteenth 14.09 (22.68) sixteenth 18.87 (30.38) reverse 0.18 (0.28), 0.26 (0.41), 0.37 (0.59), 0.49 (0.79), 0.58 (0.94), 0.85 (1.36), 1.21 (1.95), 1.62 (2.62), 1.87 (3.00), 2.71 (4.36), 3.88 (6.24), 5.19 (8.35), 5.97 (9.61), 8.67 (13.95), 12.40 (19.96), 16.61 (26.73)

HYDRAULIC PERFORMANCE

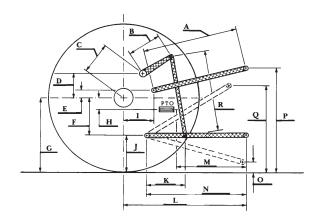
CATEGORY: II	
Quick Attach: None	
OECD Static test	
Maximum force exerted through whole range:	3134 lbs (13.9 kN)(at 24"(610 mm) behind hitch points)
	3795 lbs (16.9 kN)(at hitch points)
i) Sustained pressure of the open relief valves	2963 psi (204 bar)
ii) Pump delivery rate at minimum pressure	
and rated engine speed:	10.6 GPM (40.1 l/min)
iii) Pump delivery rate at maximum	

and rated engine speed:10.0 GPM (40.1 l/mm)iii) Pump delivery rate at maximumhydraulic power:10.4 GPM (39.5 l/min)Delivery pressure:2368 psi (163 bar)Power:14.4 HP (10.7 kW)

HITCH DIMENSIONS AS TESTED—NO LOAD

	inch	mm
А	23.6	600
В	9.8	250
С	14.7	374
D	12.0	305
E	14.3	363
F	3.0	77
G	27.3	695
*Н	-0.2	-4
Ι	17.7	450
J	24.3	618
K	15.0	380
L	40.2	1020
М	22.5	572
Ν	28.7	730
0	9.1	230
Р	48.3	1228
Q R	34.4	875
R	21.1	535

*PTO is above rear axle



Clutch single wet disc operated by foot pedal **Brakes** single wet disc hydraulically operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2198 engine rpm or 540 rpm at 1506 engine rpm **Unladen tractor mass** 6110 lb (*2771kg*)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments.

REMARKS: This tractor did not meet the manufacturer's implement pump capacity claim of 11.1 GPM (*42.0 l/min*) nor 3 point lift claims of 3426 lbs (*1554 kg*) at 24" (*610 mm*) behind lower links nor 5130 lbs (*2327 kg*) at the link ends. All test results were determined from observed data obtained in accordance with official OECD, SAE and Nebraska test procedures.

We, the undersigned, certify that this is a true and correct report of official Tractor Test No. **2128**, October 23, 2015.

Roger M. Hoy Director

> M.F. Kocher P.J. Jasa J.D. Luck Board of Tractor Test Engineers

5401 TO TPILI @ 1500 clignic Tpili				
Power HP (kW)	Crank shaft speed rpm	Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)
59.48 (44.36)	1506	3.19 (12.09)	$\begin{array}{c} 0.376 \ (0.229) \end{array}$	18.62 (3.67)
44.48 (33.17)	1503	2.46 (9.30)	$\begin{array}{c} 0.387 \ (0.235) \end{array}$	18.10 (3.57)
29.85 (22.26)	1500	1.80 (6.80)	$\begin{array}{c} 0.421 \\ (0.256) \end{array}$	16.63 (3.28)
14.83 (11.06)	1504	1.14 (4.32)	0.539 (0.328)	12.99 (2.56)
0.94 (0.70)	1506	0.64 (2.43)	4.788 (2.912)	1.46 (0.29)

Economy mode 540 PTO rpm @1506 engine rpm

Normal mode 540 PTO rpm @2198 engine rpm

Power HP (kW)	Crank shaft speed rpm	Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)
59.37 (44.27)	2192	3.69 (13.96)	$0.435 \\ (0.265)$	16.10 (3.17)
44.62 (33.27)	2207	2.97 (11.24)	0.466 (0.284)	15.03 (2.96)
29.68 (22.13)	2199	2.23 (8.43)	0.526 (0.320)	13.33 (2.63)
14.82 (11.05)	2200	1.61 (6.09)	$\begin{array}{c} 0.760 \\ (0.462) \end{array}$	9.22 (1.82)
$0.89 \\ (0.66)$	2194	1.07 (4.07)	8.500 (5.170)	$0.82 \\ (0.16)$



Cabela's LM75 Diesel Institute of Agriculture and Natural Resources University of Nebraska-Lincoln