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NEBRASKA TRACTOR TEST LABORATORY
DEPARTMENT OF BIOLOGICAL SYSTEMS ENGINEERING
INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES
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LINCOLN, NEBRASKA 68583-0832, USA

REPORT ON TEST IN ACCORDANCE WITH OECD STANDARD CODE 2 FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS



John Deere 7730 AutoQuad Plus
Mechanical Front Wheel Drive (MFWD)

MANUFACTURED BY:	**John Deere Tractor Works** **3500 East Donald Street** **Waterloo, IA 50704-0270**
NEBRASKA TEST NO.	**1894**
TEST DATES:	**March – April, 2007**

This test report provides the results of the tests conducted in accordance with the OECD Standard Test Code for the Official Testing of Agricultural Tractor Performance - C(87)53 Final, Code 2.

This report has been approved by the OECD Coordinating Centre in Paris on 14 March 2008 for the John Deere 7730 AutoQuad Plus, Mechanical Front Wheel Drive (MFWD) tractor with OECD Number 2/2 404.

No reproduction of this report or any part of it can be made without prior approval by the Nebraska Tractor Test Laboratory, Lincoln, Nebraska USA.

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Date: APR 2 5 2008

TABLE OF CONTENTS

Page

1. **SPECIFICATIONS** 1

2. **TEST CONDITIONS** 17

3. **COMPULSORY TESTS**
   - **3.1** Main Power Take-Off Performance 20
   - **3.2** Hydraulic Power and Lifting Forces 22
   - **3.3** Drawbar Performance 24

4. **OPTIONAL TESTS**
   - **4.1** Drawbar Power (Ballasted-front drive disengaged-2100 rev/min) 25
   - **4.2** Drawbar Power (Ballasted-front drive engaged-1900 rev/min) 26
   - **4.3** Power Lift Test-Region II (2 x 100 mm cylinders) 27
   - **4.4** Power Lift Test-North American Linkage (2 x 90 mm cylinders) 28
   - **4.5** Power Lift Test-North American Linkage (2 x 100 mm cylinders) 29
   - **4.6** Measurement of External Noise Level 30
   - **4.7** Measurement of Noise Level at Operator's Ear 30

5. **REPAIRS** 30

6. **REMARKS** 30

7. **PTO PERFORMANCE CURVES** 31

SPECIMEN TEST REPORT

Note: Units shown below, which appear in ISO 1000:1992, shall be stated and followed by national units in parentheses, if necessary.

C[1]		- Tractors manufacturer's name and address:	John Deere Tractor Works 3500 East Donald St. P.O. Box 270 Waterloo, IA 50704-0270
D[1]		- Location of tractor assembly:	Same
D		- Submitted for test by:	The Manufacturer
C		- Selected for test by:	The Manufacturer in agreement with the Nebraska Tractor Test Laboratory
D		- Place of running-in:	John Deere Product Engineering Center, Waterloo, Iowa
D		- Duration of running-in (hours):	76 hours
C		- Location of test:	Nebraska Tractor Test Laboratory, Lincoln, Nebraska U.S.A.
	1.	**SPECIFICATIONS OF TRACTOR**	
	1.1	**Identification**	
C	1.1.1	- Make of tractor (*):	John Deere
C		- Model (trade name):	7730
C		- Type: • *2 WD or 4 WD; rubber or steel tracks (if applicable); articulated 4 WD or articulated 4WD with twin (dual) wheels (if applicable)*	4WD
		(*) *Possibly different from tractor manufacturer's name*	
	1.1.2	Numbers	
D		- 1st Serial No. or prototype:	CONFIDENTIAL
C		- Serial No.:	*RW7730A002158*
	1.1.3	Other specifications (if applicable)	
D		- Model(s) for other countries:	N/A
C		- Transmission type or gears x ranges:	40K AutoQuad PLUS (AQ) (4 gears x 5 ranges)
C		- Speed version: • *30, 40, or 50 km/h*	40 km/h
D		- Manufacturer identification or Technical type number:	N/A

1. The information opposite each item shall be validated by the Testing Station. An item marked "C" indicates to the test report user that the information declared by the manufacturer has been checked; an item marked "D" that the manufacturer's declaration has been endorsed. For example, the make of the supercharging device is declared by the manufacturer and checked "C" as consistent with the tractor by the testing station, while the pressure of the supercharging device is simply declared "D" by the manufacturer. Testing station's markings show compliance with article 8 of Appendix 3 to the Decision.

	1.2	**Engine**	
C		- Make / Model / Type:	John Deere / PE6068HRW64 / Diesel; 4-stroke; turbocharged, direct injection, air to air intercooled
C		- Serial No.:	*PE6068L004157*
	1.2.1	Cylinders	
C		- Number / disposition:	6 / inline, vertical
D		- Bore / Stroke (mm / mm):	106.5 x 127
D		- Capacity (cm^3):	6784
D		- Compression ratio:	17.0 : 1
D		- Arrangement of valves:	Overhead; 4 valves per cylinder
D		- Cylinder liners (wet or dry):	Wet; replaceable
	1.2.2	Supercharging	
C		- Make / Model / Type:	Borg Warner / RE527276 / Variable Geometry exhaust gas driven
D		- Pressure (MPa):	0.116
	1.2.3	Fuel System	
C		- Fuel feed system:	Electric Transfer Pump
		- Make / Model / Type of fuel filter(s)	
C		. Primary:	Fleetguard / RE529643 / 30 micron multilayer water separating
C		. Secondary:	Fleetguard / RE522878 / 2 micron multilayer water separating
D		- Capacity of fuel tank (dm^3):	392 on tested tractor; 358 w/RH door
C		- Make / Model / Type of injection pump:	Denso / RE527528 / HPCR; electronic
C		- Serial No.:	05H 00729
		- Manufacturer's production setting of injection pump	
C		. Flow rate (rated engine speed and full load) (dm^3/h):	33.0 +/- 1.7
D		. Timing:	Variable
D		- Make / Model / Type of injectors:	Denso / RE527248 / HPCR Injection
D		- Injection pressure (MPa):	115
C		- Make / Model / Type of carburetor:	N/A
	1.2.4	Governor	
C		- Make / Model / Type:	John Deere / FOCUS / Electronic Control
C		- Governed range of engine speed from ____ to ____ (min^{-1} (rev/min)):	900 to 2200
C		- Rated engine speed (min^{-1} (rev/min)):	2100

	1.2.5	Air Cleaner	
		- Pre-cleaner	
C		. Make / Model / Type:	Donaldson / RE196946 / Stratotube precleaner with fan aspirator
C		. Location of air intake:	Under hood, front of tractor
		- Main cleaner	
		. Make / Model / Type	
C		- Primary:	Donaldson / RE196945 / PowerCore™ pleated paper
C		- Secondary:	Donaldson / RE181915 / PowerCore™ pleated paper
C		. Location of air intake (in case of no pre-cleaner):	Under hood, in front of cab
C		- Maintenance indicator:	Console mounted warning light and audible signal
	1.2.6	Lubrication system	
D		- Type of feed pump:	Full pressure, positive displacement
C		- Type of filter(s):	Full Flow
C		- Number of filter(s):	1 spin on
	1.2.7	Cooling system	
C		- Type of coolant:	Liquid
D		- Type of pump:	Centrifugal, belt driven
		- Specification of fan or blower	
C		. Number of fan blades:	9
C		. Fan diameter (mm):	660.4
D		- Coolant capacity (dm^3):	29.3
C		- Type of temperature control:	Two thermostats and variable speed fan
D		- Superpressure system (kPa):	70 +/- 2
	1.2.8	Starting system	
C		- Make / Model / Type:	Denso / RE501294 / Solenoid engaged
D		- Starter motor power rating (kW):	4.0
C		- Cold starting aid:	Glow plug thermal assist
C		- Safety device:	Electrical lockout on gearshift lever
	1.2.9	Electrical system	
C		- Voltage (V):	12
		- Generator	
C		. Make / Model / Type:	Bosch/ RE210793 / Belt driven alternator with built-in regulator
D		. Power (kW):	2.4
		- Battery of accumulators	
C		. Number:	Two; 925 CCA, RC 180
D		. Rating (Ah at ____ hours):	154 Ah at 20 hours

	1.2.10	Exhaust system	
C		- Make / Model / Type:	Nelson / RE200848 / Expansion Chamber
C		- Location:	Vertical muffler, right front corner of cab
	1.3	**Transmission**	
	1.3.1	Clutch (travel alone)	
D		- Make / Model / Type:	John Deere / Multiple plate / Oil cooled
D		- Number of plates:	5 forward / 5 reverse
D		- Diameter of plates (mm):	225 forward; 295 reverse
C		- Method of operation:	Electro-Hydraulic; pedal actuated
	1.3.2	Gear box	
D		- Make / Model / Type:	John Deere / 40K AutoQuad Plus / Mechanical countershaft and planetary deisgn
		- Description:	5 manually synchronized ranges and a 4 speed planetary gear set with multiple wet disc clutches and brake units.

		Forward	Reverse
C	Number of ranges	5	5
C	Number of gears	4	4
C	Total of arrangements	20	20

D	- Available options:	30K, 16 speed PowerQuad Plus 40K, 20 speed AutoQuad Plus 50K, 20 speed AutoQuad Plus (specialty market) 40K, Infinitely Variable Transmission 50K, Infinitely Variable Transmission (specialty market)
	1.3.3	Rear axle and final drives
D	- Make / Model / Type:	John Deere / AR231827 / Spiral bevel with pinion differential and inboard planetary reduction
	- Differential lock	
D	. Type:	Electo-hydraulic, wet multi-plate
C	. Method of engagement:	Foot operated switch
C	. Method of disengagement:	Self-disengaging with brake pedal operation
	1.3.4	Front axle and final drives
D	- Make / Model / Type:	John Deere / AR231264 / Spiral bevel and pinion, differential and outboard planetary reduction
	- Differential lock	
D	. Type:	Limited slip
C	. Method of engagement:	Self-engaging
C	. Method of disengagement:	Self-disengaging

1.3.5 Total ratios and traveling speeds

Gear No.	Group or range	Number of engine revolutions for one revolution of the driving wheels	Nominal traveling speed (*) at rated engine of 2100 min^{-1} (rev / min) km/h
1	A1	285.574	2.41
2	A2	237.165	2.90
3	A3	198.016	3.48
4	A4	161.646	4.26
5	B1	134.738	5.11
6	B2	111.898	6.16
7	B3	93.427	7.37
8	C1	84.664	8.14
9	B4	76.267	9.03
10	C2	70.312	9.80
11	C3	58.706	11.73
12	C4	47.923	14.37
13	D1	45.729	15.06
14	D2	37.977	18.14
15	D3	31.708	21.72
16	E1	30.867	22.31
17	D4	25.884	26.61
18	E2	25.635	26.87
19	E3	21.403	32.18
20	E4	17.472	39.42
Reverse			
1	A1	-273.675	-2.52
2	A2	-227.283	-3.03
3	A3	-189.765	-3.63
4	A4	-154.910	-4.45
5	B1	-129.124	-5.33
6	B2	-107.235	-6.42
7	B3	-89.534	-7.69
8	C1	-81.137	-8.49
9	B4	-73.089	-9.42
10	C2	-67.383	-10.22
11	C3	-56.260	-12.24
12	C4	-45.926	-15.00
13	D1	-43.824	-15.72
14	D2	-36.395	-18.92
15	D3	-30.387	-22.67
16	E1	-29.581	-23.28
17	D4	-24.806	-27.77
18	E2	-24.567	-28.04
19	E3	-20.511	-33.58
20	E4	-16.744	-41.13
(*) Calculated with a tyre dynamic radius index of 870 mm (ISO 4251-1:1998)			

- Number of revolutions of front wheels for one revolution of rear-wheels (For 4WD tractors only): MFWD – 1.322

	1.4	**Power take-off (PTO)**	
	1.4.1	Main power take-off	
C		- Type (independent, semi-independent or not independent):	Independent
C		- Method of engagement (if necessary describe the type of clutch):	Electro-hydraulically actuated multi-plate wet clutch operated by single hand switch
C		- Number of shafts:	One
C		- Method of changing power take-off shaft ends and speeds:	Reversible shaft: two (540/1000) or three speed lever option (540/1000/540E)
	1.4.1.1	Power take-off proportional to engine speed	
		Power take-off at 540 min^{-1} (rev / min)	
C		- Location:	Rear of tractor; center plane
C		- Diameter of power take-off shaft end (mm):	35
C		- Number of splines: (Conformity to ISO 500:1991)	6; conforms to ISO 500 / 1991
C		- Height above ground (mm):	695
C		- Distance from the median plane of the tractor (mm):	0
C		- Distance behind rear-wheel axis (mm):	687
C		- PTO speed at rated engine speed (min^{-1} (rev/min)):	582
C		- Engine speed at standard power take-off speed (min^{-1} (rev/min)):	1950
C		- Ratio of rotation speeds (engine speed / p.t.o. speed):	3.611 : 1
D		- Power restriction (kW):	None
D		- Maximum torque transmissible (Nm):	None
C		- Direction of rotation: (viewed from behind tractor)	Clockwise

		Power take-off at 1000 min^{-1} (rev / min)	
C		- Location:	Rear of tractor, center plane
C		- Diameter of power take-off shaft end (mm):	35
C		- Number of splines: (Conformity to ISO 500:1991)	21; conforms to ISO 500 / 1991
C		- Height above ground (mm):	695
C		- Distance from the median plane of the tractor (mm):	0
C		- Distance behind rear-wheel axis (mm):	687
C		- PTO speed at rated engine speed (min^{-1} (rev/min)):	1077
C		- Engine speed at standard power take-off speed (min^{-1} (rev/min)):	1950
C		- Ratio of rotation speeds (engine speed / p.t.o. speed):	1.950 : 1
D		- Power restriction (kW):	None
D		- Maximum torque transmissible (Nm):	Maximum engine torque
C		- Direction of rotation: (viewed from behind tractor)	Clockwise
	1.4.1.2	Power take-off proportional to ground speed	
C		- Indicate 540 or 1000 min^{-1} (rev / min):	N/A
C		- Traveling distance for one revolution of take-off shaft (m):	
C		- Number of power take-off shaft revolutions for one revolution of (rear) driving wheels:	
C		- Direction of rotation with forward gear engaged (viewed from behind tractor):	
	1.4.2	Optional power take-off	
C		- Give the same description as for the main PTO:	Not Available

	1.5	**Hydraulic power lift**	
C		- Make / Model / Type:	John Deere / N/A / Electro-hydraulic lower link sensing; variable mix of draft and position control; adjustable rate of drop
C		- Type of hydraulic system:	Closed center; pressure and flow compensated
C		- Type and number of cylinders (single or double acting):	Two external, single acting (90mm or 100 mm)
C		- Type of linkage lock for transport:	Electro-hydraulic
D		- Relief valve pressure setting (tolerance) (MPa):	20.3 +/- 0.3
D		- Opening pressure of cylinder safety valve (if fitted) (MPa):	23.2
D		- Lift pump type:	Closed center, load sensing pressure-flow compensated axial piston pump with full flow charge pump
D		- Transmission between pump and engine:	Gear driven; transmission front housing
C		- Type and number of filters:	Synthetic spin on filter; one
C		- Site of oil reservoir:	Differential case housing
C		- Type, number, and location of tapping points:	ISO standard breakaway couplers / 3 standard with 4th optional and power beyond optional; rear of tractor, 5th and 6th optional mid-mount valves
D		- Maximum volume of oil available to external cylinders (dm^3):	50

1.6 Three point linkage

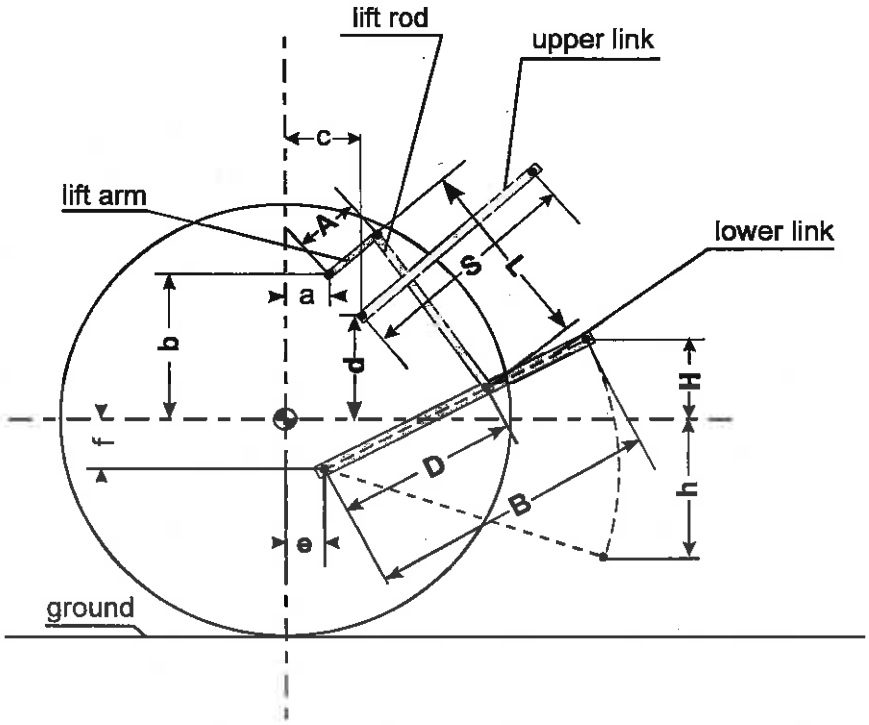


Figure 2.1
Lift Test – Linkage geometry

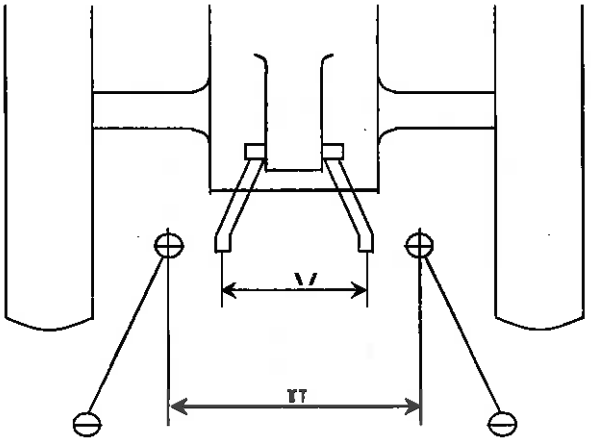


Figure 2.2
Lift Test – Linkage geometry

C	- Category: • *Conformity with categories 1, 2, 3, 4, 3N, or 4N of ISO 730-1:1994 + Cor.1:1995 and ISO 730-2:1979*	3 Specific Market Version Standard Lift
C	- Category adapter:	None

			Dimension or range	Settings used in test(s)
			mm	mm
C	Length of arms:	(A)	425	Same
C	Length of lower links:	(B)	1120	Same
	Distance of lift arm pivot point from rear wheel axis			
C	- horizontally:	(a)	230	Same
C	- vertically:	(b)	608	Same
C	Horizontal distance between the 2 lower link points:	(u)	529	Same
C	Horizontal distance between the 2 lift arm end points:	(v)	680	Same
C	Length of upper arm link:	(S)	630 to 810	760
	Distance of upper link pivot point from rear wheel axis			
C	- horizontally:	(c)	532/527/530	530
C	- vertically:	(d)	201/283/353	353
	Distance of lower link pivot point from rear wheel axis			
C	- horizontally:	(e)	180	Same
C	- vertically:	(f)	315	Same
C	Distance of lower link pivot points to lift rod pivot points on lower links:	(D)	688	Same
C	Length of lift rods:	(L)	910 to 1050	975
	Height of lower hitch points relative to the rear wheel axis			
C	- in low position:	(h)	539 to 788	675
C	- in high position:	(H)	24 to 236	120
C	Height above ground of lower hitch points when locked in transport position (*):		929 to 1141	1025
	(*) Assuming r = 905 Tyre dynamic radius index (pneumatic tyred tractors only)			

Table 1.1

Dimensions of linkage geometry when connected to the standard frame

C	- Category:	3
	• *Conformity with categories 1, 2, 3, 4, 3N, or 4N of ISO 730-1:1994 + Cor.1:1995 and ISO 730-2:1979*	North American Version Standard Lift
C	- Category adapter:	3QC

			Dimension or range	Settings used in test(s)
			mm	mm
C	Length of arms:	(A)	425	Same
C	Length of lower links Quick Coupler offset:	(B)	1024+88	Same
	Distance of lift arm pivot point from rear wheel axis			
C	- horizontally:	(a)	230	Same
C	- vertically:	(b)	608	Same
C	Horizontal distance between the 2 lower link points:	(u)	529	Same
C	Horizontal distance between the 2 lift arm end points:	(v)	680	Same
C	Length of upper arm link:	(S)	625 to 770	700
	Distance of upper link pivot point from rear wheel axis			
C	- horizontally:	(c)	523/570	523
C	- vertically:	(d)	190/120	190
	Distance of lower link pivot point from rear wheel axis			
C	- horizontally:	(e)	180	Same
C	- vertically:	(f)	324	Same
C	Distance of lower link pivot points to lift rod pivot points on lower links:	(D)	617	Same
C	Length of lift rods:	(L)	910 to 1050	940
	Height of lower hitch points relative to the rear wheel axis			
C	- in low position:	(h)	559 to 809	640
C	- in high position:	(H)	15 to 252	154
C	Height above ground of lower hitch points when locked in transport position (*):		920 to 1157	1028
	(*) Assuming r = 870 Tyre dynamic radius index (pneumatic tyred tractors only)			

Table 1.1

Dimensions of linkage geometry when connected to the standard frame

C	- Category: • *Conformity with categories 1, 2, 3, 4, 3N, or 4N of ISO 730-1:1994 + Cor.1:1995 and ISO 730-2:1979*	3 North American Version Optional High Lift
C	- Category adapter:	3QC

			Dimension or range	Settings used in test(s)
			mm	mm
C	Length of arms:	(A)	425	Same
C	Length of lower links Quick Coupler offset:	(B)	1024+88	Same
	Distance of lift arm pivot point from rear wheel axis			
C	- horizontally:	(a)	230	Same
C	- vertically:	(b)	608	Same
C	Horizontal distance between the 2 lower link points:	(u)	529	Same
C	Horizontal distance between the 2 lift arm end points:	(v)	680	Same
C	Length of upper arm link:	(S)	660 to 825	670
	Distance of upper link pivot point from rear wheel axis			
C	- horizontally:	(c)	523/520	523
C	- vertically:	(d)	190/120	190
	Distance of lower link pivot point from rear wheel axis			
C	- horizontally:	(e)	180	Same
C	- vertically:	(f)	315	Same
C	Distance of lower link pivot points to lift rod pivot points on lower links:	(D)	688.5	Same
C	Length of lift rods:	(L)	910 to 1050	990
	Height of lower hitch points relative to the rear wheel axis			
C	- in low position:	(h)	523 to 748	675
C	- in high position:	(H)	7 to 218	75
C	Height above ground of lower hitch points when locked in transport position (*):		912 to 1123	980
	(*) Assuming r = 905 Tyre dynamic radius index (pneumatic tyred tractors only)			

Table 1.1

Dimensions of linkage geometry when connected to the standard frame

	1.7	**Swinging drawbar**	
C		- Type:	Oscillating
		- Height above ground	
C		. Minimum (mm):	402; offset down
C		. Maximum (mm):	466: offset up
C		- Type of adjustment:	Offset drawbar
		- Distance of hitch point from rear wheel axis	
C		. Horizontally (mm):	936, 1036, 1086
		- Distance of hitch point from power take-off shaft end	
C		. Horizontally (mm):	249, 349, 399
C		. Vertically (mm):	289.4
C		- Lateral adjustment (center of clevis)	
C		. Left hand (mm):	200
C		. Right hand (mm):	200
		- Distance of pivot point from rear wheel axis	
C		. Horizontally (mm):	14
C		- Diameter of drawbar pinhole (mm):	33
D		- Maximum vertical permissible load (kN):	14.0 – PTO Position 22.2 – Short Position
	1.8	**Trailer hitch**	
C		- Type:	NA
C		- Hole diameter (mm):	
C		- Height above ground (mm):	
		- Distance of hitch point from rear wheel axis	
C		. Horizontally (mm):	
		- Distance of hitch point from take-off shaft end	
C		. Horizontally (mm):	
C		. Vertically (mm):	
D		- Maximum vertical permissible load (kN):	
	1.9	**Holed drawbar**	
C		- Number of holes:	NA
C		- Distance between holes (mm):	
C		- Hole diameter (mm):	
C		- Thickness / width of the drawbar (mm /mm):	
		- Height above ground	
C		. Minimum (mm):	
C		. Maximum (mm):	
C		- Horizontal distance to power take-off shaft end (rear) (mm):	

	1.10	**Steering**	
D		- Make / Model / Type:	Sauer / RE208148 / Hydrostatic gerotor metering unit with load sensing
		- Method of operation	
D		. Pump(s):	Same as main hydraulic pump
D		. Rams(s):	Integrated symmetrical design
D		- Working pressure (MPa):	18.5
	1.11	**Brakes**	
	1.11.1	Service brake	
D		- Make / Model / Type:	Eaton / RE231213 / John Deere Oil immersed
C		- Method of operation:	Hydraulic, operated by two pedals which can be locked together
C		- Trailer braking take-off (hydraulic or air brakes):	Optional air or hydraulic (not installed)
	1.11.2	Parking brake	
C		- Type:	Transmission lock
C		- Method of operation:	Gear selector lever
	1.12	**Wheels**	
		- Number	
C		. Front (driving / steering):	Two; driving and steering
C		. Rear (driving / steering):	Two; Driving
C		- Wheelbase (mm):	MFWD – 2860
		- Track width adjustment:	

		Minimum mm	Maximum mm	Adjustment method
D	Front	1524	2235	Reversing wheels and offset lug rims
D	Rear	1524	2778	Rack and pinion axle; reversing wheels and offset lug rims

	1.13	**Protective structure**	
C		- Make / Model / Type:	John Deere/CG001/Cab
C		- Manufacturer's name and address:	John Deere Waterloo Works Waterloo, Iowa, USA
		- Protective device	
C		. Cab / frame / rollguard / other:	Cab
C		. Tiltable / not tiltable:	Not tiltable
		- OECD approval	
C		. approval number:	4/1 015
C		. Date of approval:	13 July 2007
C		. Nos. of minor modification certificates, if any:	None

	1.14	**Seat(s)**	
	1.14.1	Driver's seat	
C		- Make / Model / Type	John Deere/Sears Manufacturing / Comfort Command / air cushion suspension
C		- Seat and steering wheel reversible: Yes / No	No
C		- Type of suspension:	Air ride
C		- Type of damping:	Adjustable viscous damping
		- Range of adjustment	
C		. Longitudinally (mm):	178
C		. Vertically (mm):	172
C		- Safety belt:	Yes
		. Type:	2 point, fully retractable
	1.14.2.	Optional driver's seat(s)	
	1.14.2.1	Option 1	
D		- Make / Model / Type	John Deere/ Sears Manufacturing/ John Deere Active Seat
D		- Type of suspension:	Air/Hydraulic
D		- Type of damping:	Active position control
		- Range of adjustment	
D		. Longitudinally (mm):	178
D		. Vertically (mm):	172; (87 mm adjustment range)
	1.14.2.2	Option 2	
D		- Make / Model / Type	John Deere / Sears Manufacturing / John Deere Personal Posture™
D		- Type of suspension:	Air Ride
D		- Type of damping:	Adjustable, viscous damping
		- Range of adjustment	
D		. Longitudinally (mm):	200
D		. Vertically (mm):	140
	1.14.3	Passenger seat	
C		- Location:	Optional Instruction seat located left of driver's seat
C		- Capacity (number)	One

1.15 Lighting

	Height above ground of centre	Size	Distance from outside edge of lights to median plane of tractor
	mm	mm	mm
Headlights			
Inner Pair	1535	180 x 120	170
Outer Pair	1535	155 x 126	330
Sidelights			
Midbody	2115	165 x 112	620
Rearlights			
Roof	2845	165 x 113	405
Fender	2080	165 x 113	843
Reflectors			
Front	3945	72 x 200	770
Rear	2930	72 x 200	770
Brake	1880	210 x 104	910
Extremity	2120	160 x 80	1792

2. TEST CONDITIONS

Separate tables may be added to report other test conditions or equipments.

2.1 Overall dimensions

	Length	Width*		Height at top of:	
		minimum	maximum	protective structure	exhaust pipe
	mm	mm	mm	mm	mm
Ballasted	5711	2807	3830	3072	3090
Unballasted	5394	2208	2807	3072	3090

** Assumes rear duals for ballasted width and rear singles for unballasted width.*

2.2 Ground clearance (unballasted tractor) (mm):

391

- Clearance – limiting part: Hitch Sway Blocks

2.3 Tractor mass

- Mass (with cab):

	Ballasted		Unballasted	
	With Driver	Without Driver	With Driver	Without Driver
	kg	kg	kg	kg
Front	3434	3414	2826	2806
Rear	6318	6263	5021	4966
Total	9752	9677	7847	7772

Ballast Added	Number of Weights	Total Mass	Liquid
		kg	kg
Front (weight support)	1	54	-
Front (weights)	8	373	
Rear (weights)	2	438	-
Rear (weights)	4	328	-
Rear (duals)	2	712	-

2.4 Track specifications

Track materials:	NA
Track width and base (mm):	
Dynamic radius (rolling radius) (mm):	
Track support system:	
Treadbars	
. Number of treadbars per metre:	
. Height, width, and length (mm):	
Other specifications:	

2.5 Tyres and track specifications

	Front	Rear
Tyres		
- dimensions:	Goodyear 380/85R30	Goodyear 480/80R42
- ply rating:	135 A8	151 A8
- type:	Radial	Radial
- maximum load (tyre manufacturer's) (kN):	21.37 kN	33.83 kN
- maximum load (tractor manufacturer's) (kN):	Same	Same
- inflation pressure (tyre manufacturer's) (kPa):	From 60 to 160	From 60 to 160
- dynamic radius index (mm):	665	870
Chosen track width (mm):	1829	1549

2.6 Fuel

- Type: No. 2 Diesel in conformity with national standards
  - *in conformity / not in conformity with national standards*
- Density at 15° C: 0.840 kg/l

2.7 Oil and lubricants

2.7.1 Capacity and change interval

	Capacity	Oil Change	Filter change
	Dm^3	h	h
Engine	26	250 (500 with John Deere PLUS-50 and John Deere filter)	Same
Gear Box	150	1500	Same
Front Axle	14.4	1500	N/A
Rear Axle	Common w/gearbox	1500	Common w/gearbox
Final Drive (front)	3.8	1500	N/A
Final Drive (rear)	Common w/gearbox	1500	Common w/gearbox
Hydraulic System (*)	Common w/gearbox	1500	Common w/gearbox
Other (steering, ___)	N/A	N/A	N/A
(*) State if common with gear box and rear axle.			

2.7.2 Specifications (SAE, API, CCMC, ACEA, Mil.L, ISO)

	Recommended	Used during test
Engine oil		
. Type:	John Deere; Torq-Gard Supreme SAE 5W30: PLUS-50 SAE 15W40 or 0W40	John Deere; Torq-Gard Supreme SAE 15W40
. Viscosity:	12.5 - 16.3 cSt @ 100 C	Same
. Classifications:	API CF-4; CH - 4; ACEA E2	Same
Transmission oils		
. Type:	John Deere HY-GARD; J20C SAE 10W-30	Same
. Viscosity:	58 cSt at 43 C	Same
. Classifications:	N/A	N/A
Hydraulic fluid		
. Type:	Same as transmission	Same
. Viscosity:		
. Classifications:		
Steering oil		
. Type:	Same as transmission	Same
. Viscosity:		
. Classifications:		

2.7.3 Grease

- Number of lubrication points: MFWD – 22 (as tested)
ILS – 32

3. COMPULSORY TESTS RESULTS

3.1 Main power take-off

- Date and location of tests: 21-Mar-07 Nebraska Tractor Test Laboratory, Lincoln, NE, USA
- Type of dynamometer bench: Eaton

	Speed			Fuel consumption			Specific
Power	Engine	PTO	Fan	Hourly		Specific	energy
kW	rev/min			kg/h	l/h	g/kWh	kW-h/l
3.1 MAXIMUM POWER - ONE HOUR TEST							
128.64	1900	973	1222	30.52	36.33	237	3.54
3.1.2 POWER AT RATED ENGINE SPEED							
114.31	2100	1075	1262	28.63	34.08	250	3.35
3.1.3 STANDARD POWER TAKE-OFF SPEED (1000 +/- 25 rev/min							
125.42	1954	1000	1289	30.14	35.88	240	3.50
3.1.4 PART LOADS							
3.1.4.1 the torque corresponding to maximum power at rated engine speed							
114.31	2100	1075	1262	28.63	34.08	250	3.35
3.1.4.2 85% of torque obtained in 3.1.4.1							
99.89	2156	1104	1155	25.90	30.83	259	3.24
3.1.4.3 75% of torque defined in 3.1.4.2							
75.19	2166	1109	1035	21.27	25.32	283	2.97
3.1.4.4 50% of torque defined in 3.1.4.2							
50.10	2176	1114	1041	16.65	19.82	332	2.53
3.1.4.5 25% of torque defined in 3.1.4.2							
25.31	2188	1121	1047	11.79	14.04	466	1.80
3.1.4.6 unloaded							
0.76	2197	1125	na	8.26	9.83	10881	0.08
3.1.5 PART LOADS AT STANDARD POWER TAKE-OFF SPEED (1000 +/- 25 rev/min)							
3.1.5.1 the torque corresponding to maximum power at standard PTO speed							
125.42	1954	1000	1289	30.14	35.88	240	3.50
3.1.5.2 85% of torque obtained in 3.1.5.1							
109.90	2012	1030	1289	26.99	32.13	246	3.42
3.1.5.3 75% of torque defined in 3.1.5.2							
82.19	2012	1030	1095	21.68	25.81	264	3.18
3.1.5.4 50% of torque defined in 3.1.5.2							
54.84	2012	1030	1025	16.83	20.03	307	2.74
3.1.5.5 25% of torque defined in 3.1.5.2							
27.42	2012	1030	1036	11.11	13.23	405	2.07
3.1.5.6 unloaded							
0.66	2012	1030	1042	6.85	8.15	10408	0.08

- No load maximum engine speed: 2197 rev/min
- Torque (equivalent crankshaft) at rated speed:
  - At rated engine speed 520 Nm
  - At maximum power 647 Nm
- Maximum torque (equivalent crankshaft): 764 Nm
  (engine speed: 1600 rev/min)

Mean atmospheric conditions:		
Dry bulb	25	°C
Pressure	96.7	kPa
Relative Humidity	59	%
Maximum temperatures:		
Coolant	103	°C
Engine oil	121	°C
Fuel	65	°C
Engine air intake	32	°C

3. COMPULSORY TESTS RESULTS

3.1 Main power take-off

- Date and location of tests: 21-Mar-07 Nebraska Tractor Test Laboratory, Lincoln, NE, USA
- Type of dynamometer bench: Eaton

Power	Speed			Fuel consumption			Specific energy
				Hourly		Specific	
kW	Engine	PTO	Fan	kg/h	l/h	g/kWh	kW-h/l
3.1.6 PART LOADS AT DIFFERENT ENGINE SPEEDS							
3.1.6.1 maximum power at rated engine speed							
114.31	2100	1075	1262	28.63	34.08	250	3.35
3.1.6.2 80% of power obtained in 3.1.6.1 at max speed setting							
91.78	2160	1106	1061	24.45	29.10	266	3.15
3.1.6.3 80% of power obtained in 3.1.6.1 with governor control set to 90% of rated engine speed							
91.70	1892	969	1039	22.86	27.21	249	3.37
3.1.6.4 40% of power obtained in 3.1.6.1 with governor control set to 90% of rated engine speed							
45.44	1892	969	1001	14.29	17.01	314	2.67
3.1.6.5 60% of power obtained in 3.1.6.1 with governor control set to 60% of rated engine speed							
68.65	1262	646	1019	16.37	19.49	239	3.52
3.1.6.6 40% of power obtained in 3.1.6.1 with governor control set to 60% of rated engine speed							
45.79	1263	646	1000	11.88	14.15	260	3.24

3.2 HYDRAULIC POWER AND LIFTING FORCE

3.2.1 Hydraulic Power Test

Date of Test: 30-Mar-07 Location of Test-City-State: Tractor Test Lab, Lincoln, NE, USA
Tractor Model: John Deere 7730 Tapping point used for test: Remote hydraulic outlets

3.2.1.1 Hydraulic Fluid Characteristics

Viscosity at 65°C = 25 mm²/s

3.2.1.2 Compulsory Report (Test Results):

	Pressure	Reservoir oil Temperature	Engine Speed	Flow Rate	Power
	MPa	°C	rev/min	l/min	kW
Rated Engine Speed: (Manufactures Specification)			2100		
Maximum (sustained) pressure with relief valve open as measured at the coupler Pump stalled: Yes	20.09	84	2195		
Flow rate corresponding to a hydraulic pressure equivalent to 90 percent of the actual relief valve pressure setting and corresponding hydraulic power through two coupler pairs:	18.25	84	2179	111.3	33.9
Maximum available flow from one coupler pair:	4.22	80	2189	123.0	8.6
Maximum available power from one coupler pair:	15.62	93	2174	117.3	30.5
Maximum available flow from coupler pairs operating simultaneously (flow through two or more coupler pairs if required):	1.42	61	2194	125.7	3.0
Maximum power from coupler pairs operating simultaneously (flow through two or more coupler pairs if required):	17.70	83	2179	118.5	35.0

3.2 POWER LIFT TEST

Category III, S.M. lower links with lifting cylinders (2) x 90 mm dia.

Date of test: 17 Feb 2004. Data from tests conducted on the John Deere 7820 which is technically equivalent.

	Hitch points	Frame
Lower hitch points above ground - down position:	230 mm	246 mm
Vertical movement - without load:	795 mm	836 mm
with load:	748 mm	781 mm
Maximum corrected force exerted through full range:	55.2 kN	60.6 kN
Corresponding pressure:	18.5 MPa	18.5 MPa
Moment about rear axle:	71.8 kNm	115.8 kNm
Maximum mast tilt angle	--	4.6 degrees

Lifting height relative to horizontal position of lower links.

mm	-347	-331	-297	-200	-97	3	100	200	301	401	450
Corrected lift forces											
At the Hitch point kN	55.2	--	58.2	62.8	66.4	69.1	71.3	72.7	74.2	76.1	--
at the frame kN	--	61.9	62.9	64.7	65.6	65.9	65.7	64.6	62.9	61.4	60.6
Corresponding pressure 18.5 Mpa											

OECD Drawbar Data (SI)

Date of tests:	26,28-Mar-2007	Fuel density:	0.840 kg/l
Type of track:	Concrete	Test number:	1894

3.3.1 Maximum power in tested gears (unballasted, FWA)								Tire pressure:		117 kPa, rear		103 kPa, front	Drawbar Height:		445 mm
Gear	Gear Designation	Power	Drawbar pull	Speed	Engine speed	Slip of wheels and/or tracks	Fan speed	Fuel		Temperature			Atmospheric conditions		
								Specific fuel consumption	Specific energy	Fuel	Coolant	Oil	Temperature	Relative humidity	Pressure
		kW	kN	km/h	min^{-1}	%	min^{-1}	g/kW.h	kW.h/l	°C	°C	°C	°C	%	kPa
*3	A3	61.80	71.60	3.11	2165	14.0	1048	358	2.34	60	81	101	16	84	97.4
*4	A4	75.93	71.91	3.80	2156	13.7	1049	339	2.48	61	84	103	16	89	97.3
*5	B1	92.09	69.54	4.77	2162	10.1	1052	304	2.77	62	88	105	17	80	97.4
6	B2	104.00	66.64	5.62	2060	7.6	1080	286	2.94	63	93	112	18	80	97.4
7	B3	112.29	62.90	6.43	1936	6.1	1238	274	3.06	64	95	114	24	56	97.3
8	C1	112.89	57.81	7.03	1899	5.2	1226	273	3.08	65	96	114	24	56	97.3
9	B4	113.85	51.76	7.92	1902	3.9	1150	269	3.12	66	95	115	22	61	97.3
10	C2	113.68	47.39	8.63	1903	4.3	1284	273	3.08	63	95	116	24	59	97.3
11	C3	113.70	39.39	10.39	1901	2.9	1355	271	3.10	64	95	116	24	56	97.4
12	C4	110.39	30.84	12.89	1908	2.1	1403	280	3.00	64	95	116	24	56	97.4
* Note: Slip within operating limits of test station.															
3.3.2 Fuel consumption															
3.3.2.1		In selected gear/speed setting nearest 7.5 km/hr, at maximum power at rated engine speed													
7	B3	103.73	52.45	7.12	2099	4.1	1177	284	2.96	63	93	113	23	59	97.3
3.3.2.1.1		75% of pull corresponding to maximum power at rated engine speed													
7	B3	81.31	39.38	7.43	2167	3.6	1057	305	2.75	61	87	105	18	81	97.4
3.3.2.1.2		50% of pull corresponding to maximum power at rated engine speed													
7	B3	54.94	26.25	7.54	2171	1.8	1048	353	2.38	61	86	106	19	76	97.5
3.3.2.1.3		Highest gear/speed setting at reduced engine speed able to achieve both 3.3.2.1.1 and 3.3.2.1.2; same pull and traveling speed as in 3.3.2.1.1													
10	C2	81.55	39.39	7.45	1634	3.0	1001	280	3.00	59	86	101	20	77	97.5
3.3.2.1.4		Same gear/speed selection as 3.3.2.1.3 at reduced engine speed; same pull and traveling speed as in 3.3.2.1.2													
10	C2	55.05	26.32	7.53	1648	2.8	1006	320	2.63	58	81	97	19	77	97.5
3.3.2.2		In selected gear/speed setting nearest between 7 km/hr and 10 km/hr at rated engine speed													
9	B4	101.47	41.32	8.84	2103	3.3	1271	289	2.91	63	93	112	25	53	97.4
3.3.2.2.1		75% of pull corresponding to maximum power at rated engine speed													
9	B4	78.64	30.99	9.14	2155	2.1	1143	315	2.67	62	92	108	25	37	97.4
3.3.2.2.2		50% of pull corresponding to maximum power at rated engine speed													
9	B4	53.18	20.60	9.29	2169	1.4	1141	370	2.27	63	93	112	26	54	97.4
3.3.2.2.3		Highest gear/speed setting at reduced engine speed able to achieve both 3.3.2.2.1 and 3.3.2.2.2; same pull and traveling speed as in 3.3.2.2.1													
11	C3	78.60	30.98	9.14	1653	2.3	1015	280	3.00	62	96	112	27	48	97.5
3.3.2.2.4		Same gear/speed setting 3.3.2.2.3 at reduced engine speed; same pull and traveling speed as in 3.3.2.2.2													
11	C3	53.18	20.63	9.28	1666	1.2	1002	320	2.63	60	86	103	26	51	97.4

OECD Drawbar Data (SI)

Date of tests:	03-Apr-07					**Fuel density:**	0.840 kg/l							
Type of track:	Concrete					**Test number:**	1894							
4.1 Maximum power in tested gears (ballasted, 2wd)							**Tire pressure:**	69 kPa, rear	138 kPa, front			**Drawbar Height:**	445 mm	
Gear Number and range	**Power**	**Drawbar pull**	**Speed**	**Engine speed**	**Slip of wheels and/or tracks**	**Fan speed**	**Fuel**		**Temperature**			**Atmospheric conditions**		
							Specific fuel consumption	**Specific energy**	**Fuel**	**Coolant**	**Oil**	**Temperature**	**Relative humidity**	**Pressure**
	kW	kN	km/h	min^{-1}	%	min^{-1}	g/kW.h	kW.h/l	°C	°C	°C	°C	%	kPa
B1	92.30	73.04	4.55	2144	12.8	1039	313	2.69	57	84	103	7	57	97.8
B2	102.02	62.87	5.84	2102	5.1	1027	286	2.94	59	86	106	7	52	97.8
B3	104.25	52.82	7.10	2098	3.4	1022	278	3.02	61	89	110	7	52	97.9
C1	103.84	47.42	7.88	2099	2.9	1022	277	3.03	61	90	109	7	52	98.0
B4	101.53	41.53	8.80	2101	2.5	1025	283	2.97	61	91	112	7	52	97.9
C2	102.12	38.48	9.55	2099	2.3	1029	281	2.99	62	92	113	7	52	98.0
C3	101.43	31.80	11.48	2098	1.9	1020	288	2.91	61	92	113	7	52	98.1
C4	98.29	25.06	14.12	2098	1.5	1024	289	2.91	61	91	110	7	52	98.1
3.3.2 Fuel consumption														
3.3.2.1		In selected gear at maximum power at rated engine speed.												
B3	104.25	52.82	7.10	2098	3.4	1022	278	3.02	61	89	110	7	52	97.9
3.3.2.1.1		75% of pull at maximum power at rated engine speed												
B3	81.40	39.66	7.39	2157	2.3	1033	303	2.77	57	81	102	7	52	98.1
3.3.2.1.2		50% of pull at maximum power at rated engine speed												
B3	54.92	26.42	7.48	2169	1.6	1040	359	2.34	56	78	99	7	52	98.2
3.3.2.1.3		Higher gear at reduced engine speed, same pull and travel speed as 3.3.2.1.1												
C2	81.24	39.79	7.35	1615	2.3	1000	273	3.07	53	80	95	7	52	98.2
3.3.2.1.4		Higher gear at reduced engine speed, same pull and travel speed as 3.3.2.1.2												
C2	54.80	26.41	7.47	1629	1.6	1000	321	2.62	54	78	96	7	52	98.2

OECD Drawbar Data (SI)

Date of tests:	3-Apr-2007					**Fuel density:**	0.840 kg/l							
Type of track:	Concrete					**Test number:**	1894							
4.2 Maximum power in tested gears (ballasted, FWA)							**Tire pressure:**	69 kPa, rear	138 kPa, front			**Drawbar Height:**	445 mm	
Gear Number and range	**Power**	**Drawbar pull**	**Speed**	**Engine speed**	**Slip of wheels and/or tracks**	**Fan speed**	**Fuel**		**Temperature**			**Atmospheric conditions**		
							Specific fuel consumption	**Specific energy**	**Fuel**	**Coolant**	**Oil**	**Temperature**	**Relative humidity**	**Pressure**
	kW	**kN**	**km/h**	**min^{-1}**	**%**	**min^{-1}**	**g/kW.h**	**kW.h/l**	**°C**	**°C**	**°C**	**°C**	**%**	**kPa**
*A3	82.60	91.40	3.25	2155	9.5	1039	314	2.68	57	81	100	6	63	97.7
A4	97.13	88.47	3.95	2098	7.7	1029	300	2.80	58	85	104	6	63	97.8
B1	108.62	85.67	4.56	1997	6.7	1008	278	3.03	58	87	106	7	57	97.8
B2	114.98	77.57	5.34	1902	4.8	992	268	3.13	61	92	110	7	52	97.8
B3	116.85	64.98	6.47	1900	3.5	988	262	3.20	61	93	112	7	52	97.9
C1	116.25	58.25	7.18	1902	3.2	1006	264	3.18	61	94	113	7	52	98.0
B4	114.30	51.44	8.00	1900	2.9	1029	267	3.15	62	94	115	7	52	98.0
C2	114.65	47.55	8.68	1898	2.5	1023	267	3.15	62	94	114	7	52	98.0
C3	114.30	39.39	10.45	1899	2.1	987	268	3.13	60	94	113	7	52	98.1
C4	109.40	30.54	12.89	1904	1.7	994	281	2.99	61	94	113	7	52	98.1

*Slip limited to avoid excessive bouncing.

4.3 POWER LIFT TEST (For settings see p.10)
Category III, S.M. lower links with lifting cylinders (2) x 100 mm dia.
Date of test: 17 Feb 2004. Data from tests conducted on the John Deere 7820 which is technically equivalent.

	Hitch points	Frame
Lower hitch points above ground - down position:	230 mm	236 mm
Vertical movement - without load:	795 mm	847 mm
with load:	748 mm	781 mm
Maximum corrected force exerted through full range:	69.6 kN	75.1 kN
Corresponding pressure:	18.5 MPa	18.5 MPa
Moment about rear axle:	90.5 kNm	143.3 kNm
Maximum mast tilt angle	--	3.7 degrees

Lifting height relative to horizontal position of lower links.

mm	-347	-341	-298	-199	-99	3	101	202	302	401	440
Corrected lift forces											
At the Hitch point kN	69.6	--	72.9	78.5	82.5	86.0	88.5	90.8	92.6	94.6	--
at the frame kN	--	77.7	78.9	80.8	81.8	82.1	81.7	80.1	78.1	75.8	75.1
Corresponding pressure 18.5 Mpa											

4.4 POWER LIFT TEST(for settings see p.11)
Category III, Quick attaching couple with lifting cylinders (2) x 90 mm dia.
Date of test: 17 Feb 2004. Data from tests conducted on the John Deere 7820 which is technically equivalent.

	Hitch points	Frame
Lower hitch points above ground - down position:	230 mm	216 mm
Vertical movement - without load:	824 mm	960 mm
with load:	762 mm	875 mm
Maximum corrected force exerted through full range:	53.1 kN	48.9 kN
Corresponding pressure:	18.4 MPa	18.4 MPa
Moment about rear axle:	68.7 kNm	93.0 kNm
Maximum mast tilt angle	--	9.3 degrees

Lifting height relative to horizontal position of lower links.

mm	-361	-347	-301	-199	-103	-2	98	199	298	415	514
Corrected lift forces											
At the Hitch point kN	--	53.1	55.5	59.8	62.6	65.0	66.8	67.9	68.6	69.7	--
at the frame kN	57.5	--	57.8	58.4	58.5	58.1	57.0	55.0	52.1	--	48.9
Corresponding pressure 18.4 Mpa											

4.5 POWER LIFT TEST (for settings see p.12)
Category III, Quick attaching couple with lifting cylinders - (2) x 100 mm dia.
Date of test: 17 Feb 2004. Data from tests conducted on the John Deere 7820 which is technically equivalent.

	Hitch points	Frame
Lower hitch points above ground - down position:	229 mm	219 mm
Vertical movement - without load:	750 mm	853 mm
with load:	686 mm	767 mm
Maximum corrected force exerted through full range:	75.2 kN	69.3 kN
Corresponding pressure:	18.5 MPa	18.5 MPa
Moment about rear axle:	97.2 kNm	131.8 kNm
Maximum mast tilt angle	--	6.7 degrees

Lifting height relative to horizontal position of lower links.

mm	-358	-348	-302	-202	-102	-3	98	198	298	338	409
Corrected lift forces											
At the Hitch point kN	--	75.2	78.6	84.4	88.0	91.1	93.1	94.1	95.0	95.1	--
at the frame kN	80.4	--	81.0	81.9	81.4	80.2	78.2	74.7	--	71.3	69.3
Corresponding pressure 18.5 Mpa											

4.6 Measurement of External Noise Level – John Deere 7730

-- Date of Test	March 22, 2007
-- Location of Test	Nebraska Tractor Test Laboratory
-- Sound Level Meter	Bruel and Kjaer 2236
-- Type of Track	Concrete Oval
-- Gear Number	20(E4)
-- Speed Prior to Acceleration	30.7 km/h
-- Noise Level	83.2 dB(A)

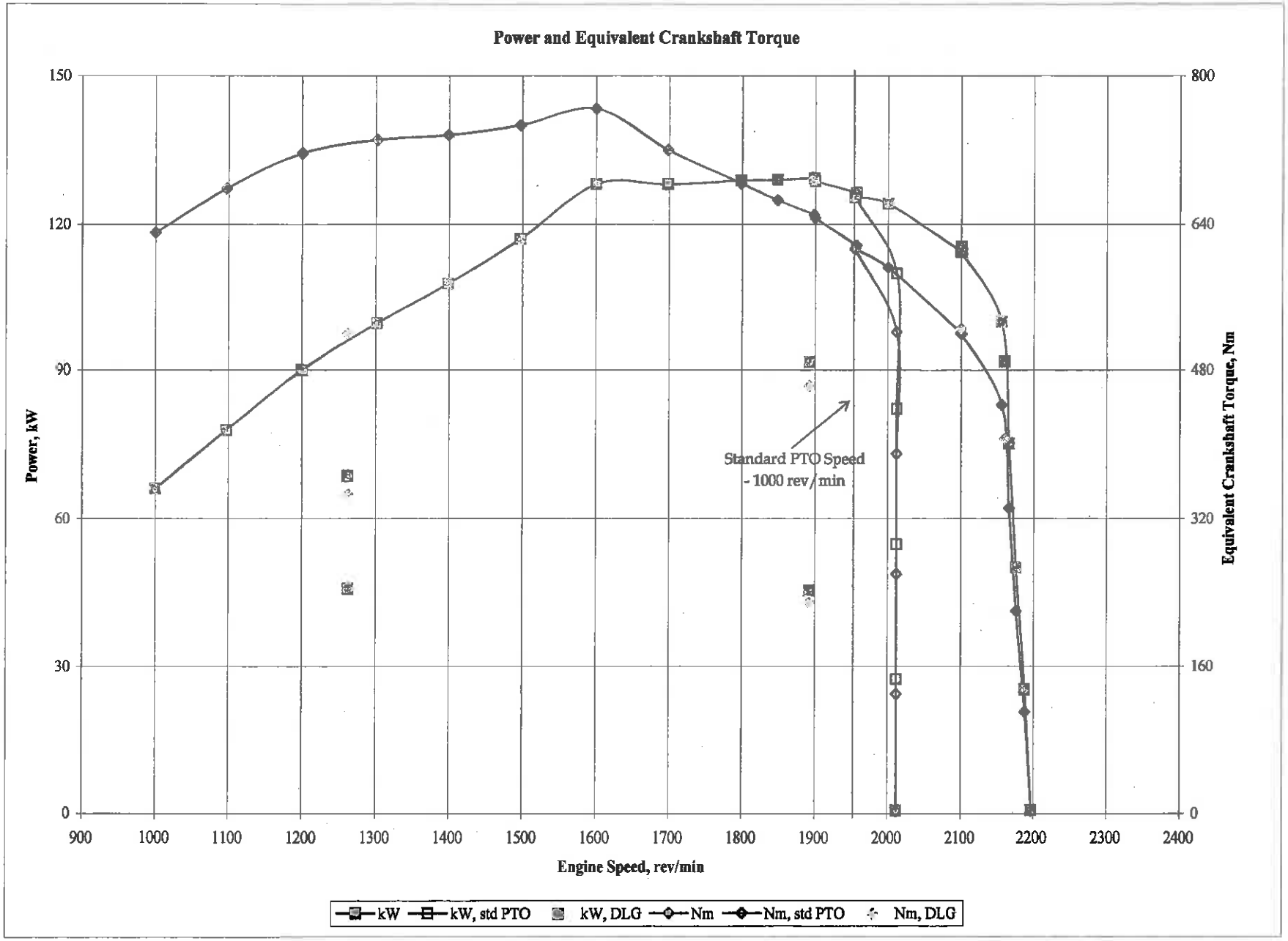
4.7 Measurement of Noise Level at Operator's Ear*

-- Date of Test	March 22, 2007
-- Location of Test	Nebraska Tractor Test Laboratory
-- Sound Level Meter	Bruel and Kjaer 2236
-- Type of Track	Concrete Oval
-- Gear Number	7(B3)
-- Drawbar Load	None
-- Noise at Operator Ear	68.2 dB(A) - front wheel drive engaged 68.0 dB(A) - front wheel drive disengaged

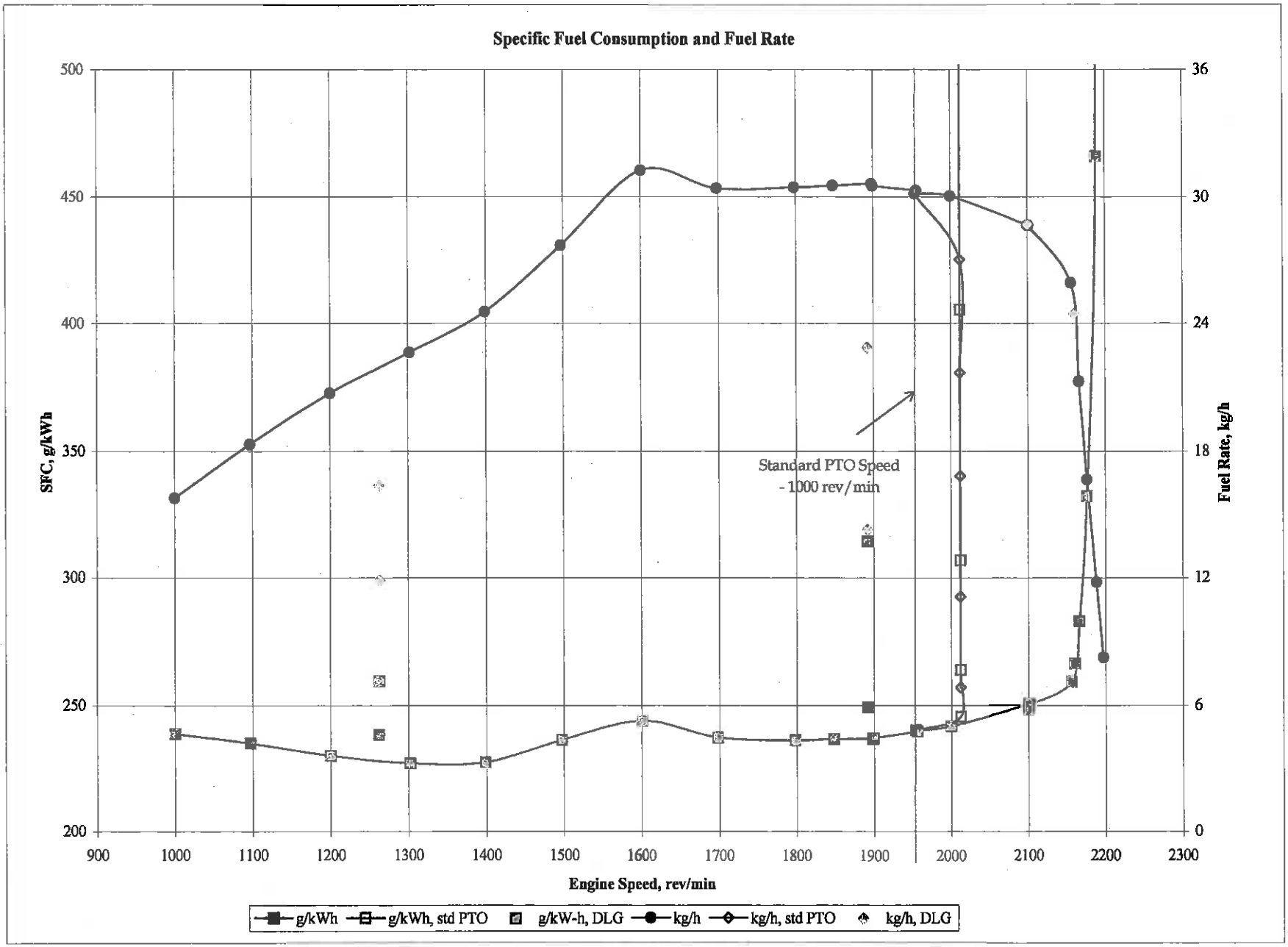
* Note: Nebraska tractor test station guidelines. Not covered by OECD approval

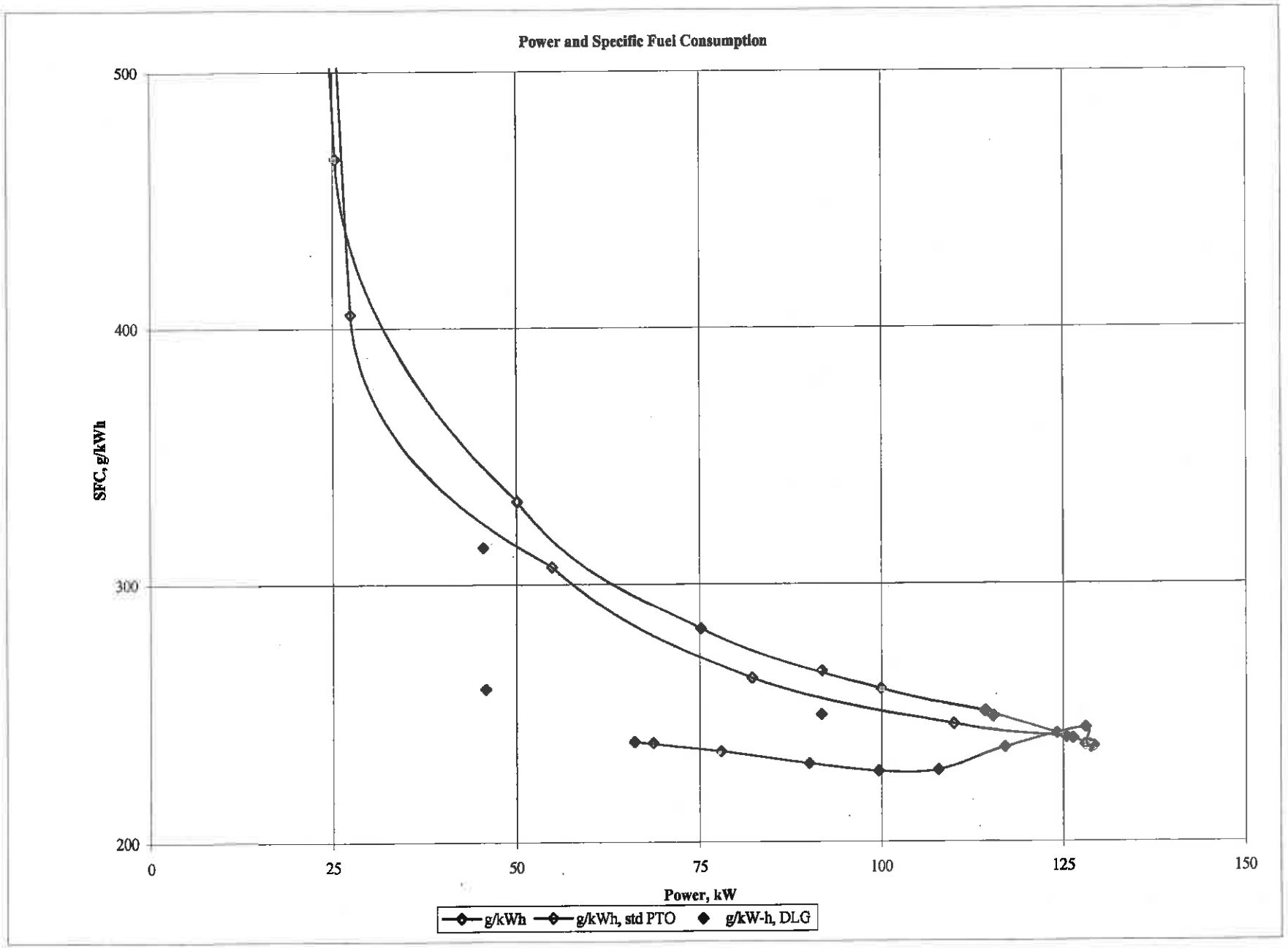
5. Repairs and Adjustments: None

6. Remarks: None


Power and Equivalent Crankshaft Torque
Power, kW
Equivalent Crankshaft Torque, Nm
Engine Speed, rev/min
Standard PTO Speed - 1000 rev/min
150
120
90
60
30
0
800
640
480
320
160
0
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
kW
kW, std PTO
kW, DLG
Nm
Nm, std PTO
Nm, DLG

John Deere 7730




Power and Specific Fuel Consumption
SFC, g/kWh
500
400
300
200
0
25
50
75
100
125
150
Power, kW
g/kWh
g/kWh, std PTO
g/kW-h, DLG