OECD APPROVAL NUMBER 1632 (Restricted Code)
Date of approval 5 September, 1996

NEBRASKA TRACTOR TESTING LABORATORY
DEPARTMENT OF BIOLOGICAL SYSTEMS ENGINEERING
INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA - EAST CAMPUS
LINCOLN, NEBRASKA 68583-0832, USA

REPORT ON TEST IN ACCORDANCE WITH OECD RESTRICTED CODE (CODE II) FOR THE OFFICIAL TESTING OF AGRICULTURAL TRACTORS RESTRICTED TEST-CODE II



CASE IH 9380 (4 WD) Articulated

MANUFACTURED BY	Case Corporation, 3401 First Avenue North Fargo, North Dakota, 58102 USA
NEBRASKA TEST	1714
TEST DATE	May 31 through June 4, 1996

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)53Final-Annex II, Restricted Code.

This report has been approved by the OECD Coordinating Centre in Paris (CEMAGREF) on 5 September, 1996 for the

Case IH 9380, 4WD articulated
with OECD test # 1632

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SPECIFICATIONS OF TRACTOR.

Manufacturers name/address	Case Corporation 3401 First Avenue North, Fargo, North Dakota 58102 ,USA
Location of tractor assembly	Fargo plant
Submitted for test by	The manufacturer
Selected for test by	The manufacturer in agreement with the test station.
Place of running in	J.I. Case , Fargo, North Dakota
Duration of running in	130 hours
Location of Test	Nebraska Tractor Test Laboratory, Lincoln, Nebraska, U.S.A.

TRACTOR.

Make/Model/Type	Case IH 9380/4WD/articulated
Number of driving wheels	4 or 8
Serial number	JEE00 35300
1st Serial number	JEE00 35300 and after JEE00 36501

ENGINE.

Make	Cummins
Model	N14-400-A
Type	Diesel, direct injection, turbocharged and intercooled
Serial Number	30353425

Cylinders

Number/disposition	6, in-line, vertical
Bore x stroke	139.7 mm x 152.4 mm
Displacement	14016 cm^3
Compression Ratio	16.5 - 1
Arrangement of valves	Overhead
Cylinder liners	Wet, replaceable

Turbo-charging

Make/Model/Type	Holset/BHT3B/exhaust gas driven
Pressure	166 ± 17.2 kPa

Fuel System

Feed system	Engine driven transfer pump
Make/Type/Model of filters	Case IH/spin-on/90-3941
Number of filters	One
Fuel tank capacity	1022 l
Make/Model/Type Injection Pump	Cummins Type G/Model PT,AFC variable speed governor,gear pump supplies pressure for PT system
Pump Serial number	3892658-37018
Production setting of pump	
Flow Rate (Rated Eng.Spd & full load)	64.4-67.1 kg/h
Fuel density	0.841 kg/liter
Make/Model/Type of injectors	Cummins PTD/Stop-top/PN 3047976
Injection timing	19^0 BTDC
Injection pressure	121.3 MPa
Rail Pressure	1103 - 1214 kPa
Timing	8 degrees BTDC

Governor

Make/Model/Type	Centrifugal flyweight, integral to fuel pump
Governed engine speed range	From 850 to 2400 rev/min
Rated engine speed	2100 rev/min
High-idle speed range	2400 ± 60 rev/min

Air Cleaner.

Pre-cleaner	
Make/Model/Type	Donaldson/Aspirated to exhaust
Air intake location	Top left corner of Cab.
Main Cleaner	
Make/Model/Type	Donaldson/SRB140254/dry with secondary safety element
Secondary element	Donaldson/pleated paper
Location of main cleaner	Front left fender
Maintenance indicator	Restriction switch in air inlet tube,light on dash

Lubrication system.

Type of feed pump	Full pressure, positive displacement.
Type of filters	Full flow and bypass/spin-on
Number	2 in one element
Oil cooler	Oil to water heat exchanger

Cooling system.

Type of coolant	Liquid
Type of pump	Centrifugal,belt driven
Fan specification	Direct driven
Number of fan blades	8
Fan diameter	813 mm
Coolant system capacity	69 liter
Type of temperature control	Thermostat
Superpressure	48 kPa

Starting system.

Make/Model/Type	Delco Remy/42 MT400/electro-mechanical engagement
Power Rating	7.46 kW
Cold starting aid	Ether spray in intake manifold and in-block coolant heater
Safety device	Electrical lockout on gearshift and PTO controls

Electrical system.

Voltage	12 Volt
Alternator	
Make/Model/Type	Delco Remy/Series 21SI/Type 200; Power rating 125 Ampere at 2100 engine rpm; 1.50 kW
Batteries	
Number & connection	3-12 V batteries in parallel
Rating	90 amp-hours per battery at 20 hour rating 625 Cold crank amps per battery

Exhaust system.

Make/Model/Type chamber	Donaldson/MAM 090848/expansion
Location	Vertical,right front side of cab, outlet directed to right side

TRANSMISSION

Clutch. (travel)

Make/Model/Type	UVC/Multi-plate/Oil immersed
Number of plates	16
Plate diameter	229 mm
Method of operation	Hydraulic, pedal actuated.

Gear Box.

Make/Model/Type	UVC/EW16/Mechanical; full range powershift
Arrangement	Countershaft Type with four clutch pack assemblies on four shafts
Number of gears	12 forward, 3 reverse controlled by two levers Lever 1: forward-reverse Lever 2: Two-position pulse-shift
Oil cooler	Air to oil; mounted in front of radiator
Available options	None

Rear axle and final drives.

Make/model/Type	Raba 694/outboard planetary
Differential Lock type	Multiple disc clutch with limited slip
Method of engagement	Electrically
Method of disengagement	Electrically
Cooler	Common with Hydraulics and Steering

Front Axle and final drives.

Make/Model/Type	Raba 694/outboard planetary
Differential lock	
Type	Multiple disc clutch with limited slip
Method of engagement	Electrically
Method of disengagement	Electrically

TOTAL TRANSMISSION RATIOS AND TRAVEL SPEEDS

Gear Number	Number of engine revolutions for one revolution of the driving wheels	Nominal travelling speed at rated engine speed of 2100 rev/min [km/h]
Forward		
1	193.795	3.70
2	160.152	4.47
3	130.124	5.50
4	107.168	6.68
5	88.563	8.08
6	71.958	9.96
7	60.956	11.75
8	50.376	14.22
9	40.929	17.51
10	33.709	21.26
11	27.856	25.73
12	22.634	31.65
Reverse		
1	148.197	4.83
2	81.951	8.74
3	46.615	15.37

Calculated with a tire dynamic radius index of 905 mm (ISO 4251/1-1992)
Number of revolutions of front wheels for one revolution of rear wheels 1.000

POWER - TAKE - OFF.

Main Power-Take-Off.

Type	Independent
Method of engagement	Hydraulically actuated multi-plate wet clutch operated by hand lever, independent of main drive clutch.
Number of shafts	One

Power take-off proportional to engine speed - 1000 rev/min.

Location	Rear of tractor, vertical center plane.
Diameter of shaft	45 mm
Number of splines	20; conforms to ISO 500/1979.
Height above ground	744 mm
Distance from median plane of tractor	0 mm
Distance behind rear axle	635 mm
PTO Speed at rated engine spd	1000.5
Engine speed at Std. PTO spd	2098 rev/min
Ratio of Engine rpm to PTO rpm	2.09797:1
Direction of rotation (viewed facing driving end)	Clockwise.

POWER LIFT

No three-point hitch available

Make/Model/Type pump	Cessna/Axial Piston pump/Pressure and flow compensated closed center system.
Power transmission to pump	Direct drive
Type/Number of filters	Full flow spin on/One
Pressure relief valve setting	19.992 ± 0.345 MPa
Location of oil reservoir	Separate reservoir, left side, rear of front frame
Number/type/location of tapping points	4 pairs/ISO standard/rear of tractor
Maximum oil volume available for external cylinders	22.7 liters

SWINGING DRAWBAR.

Type	Swinging
Height above ground:	Maximum 544 mm ; Minimum 384 mm
Adjustments	By inverting drawbar
Distance of hitch point from rear wheel axis, horizontal	1143 mm
Distance of hitch point from PTO shaft end	
Vertically	203 & 356 mm
Horizontally	509 mm
Lateral adjustment (center of clevis)	
Right side	215 mm
Left side	215 mm
Distance of pivot point from rear wheel axle; horizontally	1140 mm
Diameter of drawbar pin hole	46 mm
Maximum vertical permissible load	62.28 kN

STEERING

Make/Model/Type	Eaton hydrostatic steeringcontrol unit
Method of operation	Steering wheel
Pump	Cessna axial piston,pressure and flow compensated
Rams	Two; double acting
Working pressure	15.9 MPa
Cooler	Common with Hydraulics and Steering

BRAKES

Service brake.

Make/Model/Type	Kelsey Hayes,caliper,dry disc
Method of operation	manual/hydraulic,operated by foot pedal.

Trailer braking take-off — None

Parking brake.

Type	Caliper/dry disc
Method of operation	Mechanically by hand lever

WHEELS

Number.	
Front and Rear	Two or four/Driving and steering
Wheel base	3658 mm

Track width adjustment (fixed)

	Inside distance [mm]	Outside distance [mm]	Adjustment method
Front	1943	3391	Non-adjustable
Rear	1943	3391	Non-adjustable

PROTECTIVE STRUCTURE

Make/Model/Type	Case IH,4CSF-2
Manufacturer's name/address	Case IH 3401 First Avenue North Fargo, North Dakota, USA
Protective device	Cab; Case IH 4CSF-2; 4 post with charpy v-notch certified material
Tiltable	No
OECD approval number	CSS 076/23

DRIVER'S SEAT

Make/Model/Type	Sears, P108 Air Seat, Type 9100
Type of suspension	Air suspension
Type of damping	Fore/aft and lateral
Range of adjustment	
Longitudinal	152 mm
Vertical	76 mm

LIGHTING.

	Height above ground of center [mm]	Size [mmxmm]	Distance from outside edge of lights to median plane of tractor. [mm]
Headlights	1854	92 x 152	409
	1219	92 x 152	742
Cab lights - rear	3530	109 x 172	711
- front	3471	109 x 172	750
Rear lights	2159	109 x 172	1072
Reflectors	None		

TEST CONDITIONS.

Overall dimensions.

Length [mm]	Width as tested with duals [mm]	Height at top of protective structure [mm]	Height at top of exhaust stack [mm]
7202	4011	3627	3635

Ground clearance (unballasted)	365 mm
Clearance-limiting part	Bottom of swinging drawbar

Tractor Mass (with Cab, full fuel tank)

		Without driver [kg]	With driver [kg]
Unballasted	**Front**	8504	8564
	Rear	5821	5836
	Total	14325	14400

Tire and track width specifications.

	Front	Rear
Make	Goodyear	Goodyear
Dimensions	20.8R42	20.8R42
Ply rating	2 star (10 ply)	2 star (10 ply)
Type	Radial	Radial
Max.load (tire manufacturer)	38.48 kN	38.48 kN
Max.load(tractor manufacturer)	same	same
Inflation pressure(tire mfr)	165 kPa	165 kPa
Dynamic Radius Index	905 mm	905 mm
Chosen track width - inner	1943 mm	1943 mm
- outer	3391 mm	3391 mm

OILS AND LUBRICATION

Capacity and change interval

	Capacity liter	Oil change hrs	Filter change hrs
Engine	38.6	250	250
Gear Box	39.7	1500	1500
Front axle	34.0	1500	1500
Hydraulic system (includes steering, and rear axle)	106	1500	1500

Specifications:

	Recommended	Used during test
Engine oil		
Type	SAE 15W40	same
Viscosity	4.8 cSt at 100°C	
Classification	API CC/CD	
Transmission oil		
Type	Case IH Hytran Plus	same
Viscosity	6.2 cSt at 100°C	
Classification	NA	
Hydraulic fluid		
Type	Case IH Hytran Plus	same
Viscosity	6.2 cSt at 100°C	
Classification	NA	
Steering oil	same as hydraulic	same
Grease	NLGI No.2 Lithium	
Number of lubrication points	13	

FUEL

Type	Grade 2-D,in conformity with the national standard
Density (Pto test)	0.841 Kg/l
(Drawbar test)	Same as on PTO test
Cetane number	50.6
Viscosity	2.51 CSt at 38°C

COMPULSORY TESTS

1. MAIN POWER TAKE OFF

Date: 31-May-96 Location: UNL Tractor Test Lab, Lincoln, NE, USA

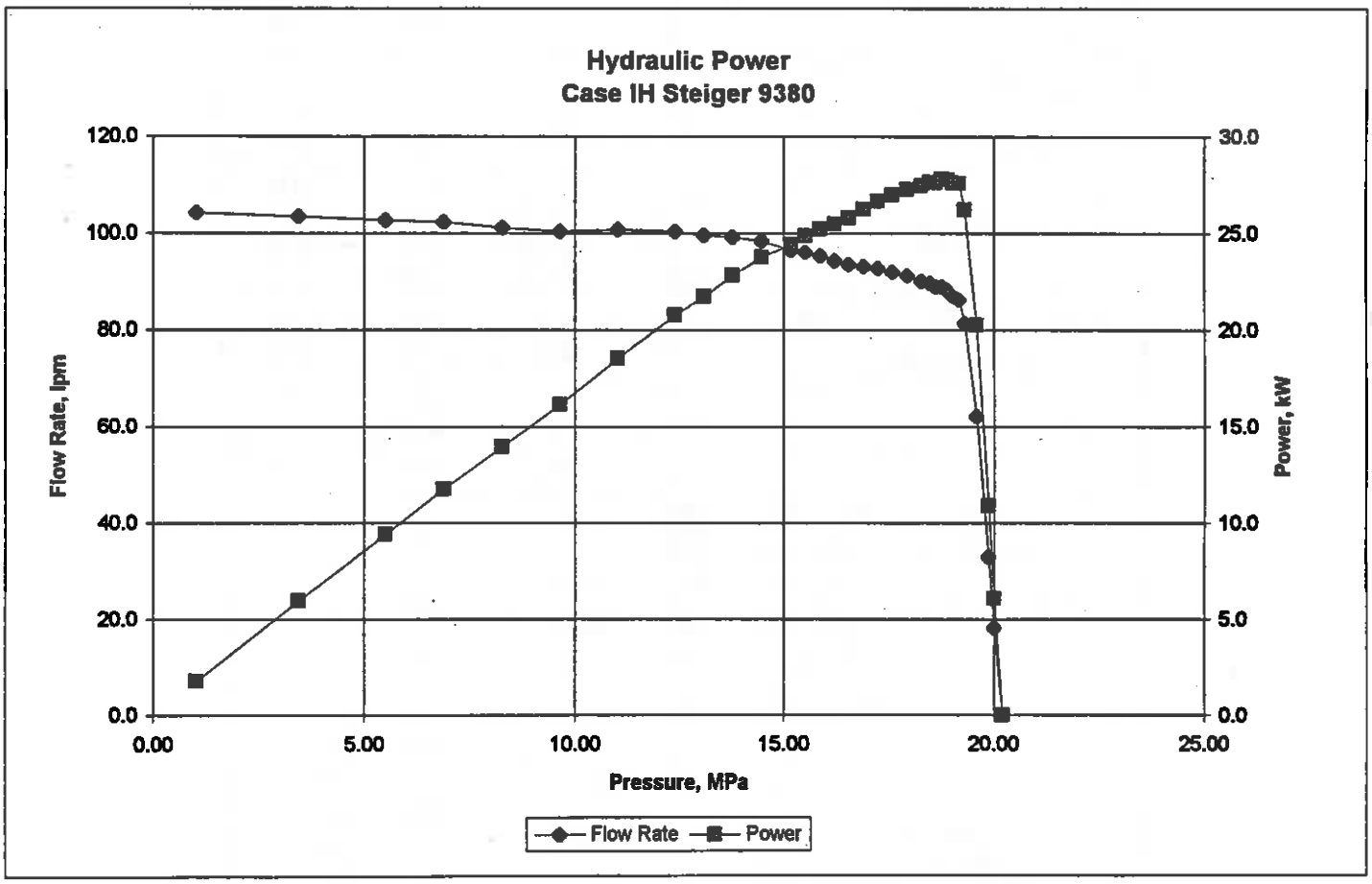
Type of dynamometer: Eddy current, Eaton

Fuel Density 0.841 kg/l

Power kW / hp	Engine rev/min	PTO rev/min	l/h / gal/h	kg/h / lb/hr	kg/kW-h / lb/hp-h	kW-h/l / hp-h/gal
1.1 Maximum Power - 2 Hours						
271.69 / 364.34	2000	952	77.10 / 20.37	64.87 / 143.01	0.239 / 0.393	3.52 / 17.89
1.2 Power at Rated Engine Speed - 1 hour						
269.02 / 360.76	2100	1000	78.87 / 20.83	66.35 / 146.28	0.247 / 0.405	3.41 / 17.32
1.3 Power at Standard Power Take Off Speed - 1 hour						
269.02 / 360.76	2100	1000	78.87 / 20.83	66.35 / 146.28	0.247 / 0.405	3.41 / 17.32
1.4 Part Loads						
1.4.1 Torque at maximum power at rated engine speed						
269.02 / 360.76	2100	1000	78.87 / 20.83	66.35 / 146.28	0.247 / 0.405	3.41 / 17.32
1.4.2 85% of torque obtained in 1.4.1						
240.70 / 322.79	2212	1053	75.54 / 19.95	63.55 / 140.10	0.264 / 0.434	3.19 / 16.18
1.4.3 75% of torque defined in 1.4.2						
183.61 / 246.23	2249	1071	62.92 / 16.62	52.93 / 116.70	0.288 / 0.474	2.92 / 14.81
1.4.4 50% of torque defined in 1.4.2						
123.55 / 165.69	2271	1081	48.85 / 12.90	41.10 / 90.60	0.333 / 0.547	2.53 / 12.84
1.4.5 25% of torque defined in 1.4.2						
62.83 / 83.99	2301	1096	34.61 / 9.14	29.12 / 64.20	0.465 / 0.764	1.81 / 9.19
1.4.6 unloaded						
1.19 / 1.59	2340	1114	22.64 / 5.98	19.05 / 42.00	16.060 / 26.402	0.05 / 0.27
1.5 Part Loads at Standard Power Take Off Speed						
1.5.1 Torque at maximum power						
269.02 / 360.76	2100	1000	78.87 / 20.83	66.35 / 146.28	0.247 / 0.405	3.41 / 17.32
1.5.2 85% of torque obtained in 1.5.1						
240.70 / 322.79	2212	1053	75.54 / 19.95	63.55 / 140.10	0.264 / 0.434	3.19 / 16.18
1.5.3 75% of torque defined in 1.5.2						
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123.55 / 165.69	2271	1081	48.85 / 12.90	41.10 / 90.60	0.333 / 0.547	2.53 / 12.84
1.5.5 25% of torque defined in 1.5.2						
62.83 / 83.99	2301	1096	34.61 / 9.14	29.12 / 64.20	0.465 / 0.764	1.81 / 9.19
1.5.6 unloaded						
1.19 / 1.59	2340	1114	22.64 / 5.98	19.05 / 42.00	16.060 / 26.402	0.05 / 0.27

No load maximum engine speed:	2340	rev/min		
Equivalent torque at rated speed:	1223	N.m	902	lb-ft
Equivalent torque at maximum power:	1297	N.m	957	lb-ft
(engine speed:	2000	rev/min)		
Maximum equivalent crankshaft torque:	1833	N.m	1352	lb-ft
(engine speed:	1299	rev/min)		
Mean Dry bulb:	24	deg C	75	deg F
Wet bulb:	20	deg C	68	deg F
Relative Humidity	69	%		
Pressure:	97.7	kPa	28.84	in Hg
Maximum Coolant:	92	deg C	197	deg F
Engine Oil:	117	deg C	242	deg F
Fuel:	63	deg C	146	deg F
Air Intake:	41	deg C	105	deg F
Transmission/hydraulic oil:	55	deg C	131	deg F
Intake manifold pressure at rated speed:	170	kPa	24.7	psig
Intake manifold pressure at maximum power:	165	kPa	23.9	psig

Date of Test: 4-Jun-96			
Location of Test-City-State:	Tractor Test Lab, Lincoln, NE, USA		
Tapping point used for test:	Remote hydraulic outlets		
I. Sustained pressure with pump stalled:			
20.20 MPa			
2930 psig			
II. Pump delivery rate at minumum pressure and rated engine speed:			
104.1 l/min			
27.5 gpm			
III. Flow rate, pressure, power:			
90% of relief valve setting			
90.1 l/min	18.27 MPa	27.4 kW	
23.8 gpm	*2650 psig*	*36.8 hp*	
Maximum hydraulic power:			
89.0 l/min	18.75 MPa	27.8 kW	
23.5 gpm	*2720 psig*	*37.3 hp*	
IV. Hydraulic fluid temperature at flow meter:			
65.6 °C			
150 °F			
This hydraulic system does not use an accumulator. Opening and closing pressures of the unloading valve could not be measured.			



OECD Drawbar Data (SI)

Date of tests: 03-Jun-96 Fuel density: 0.841 kg/l
Type of track: Concrete Test number: 1714

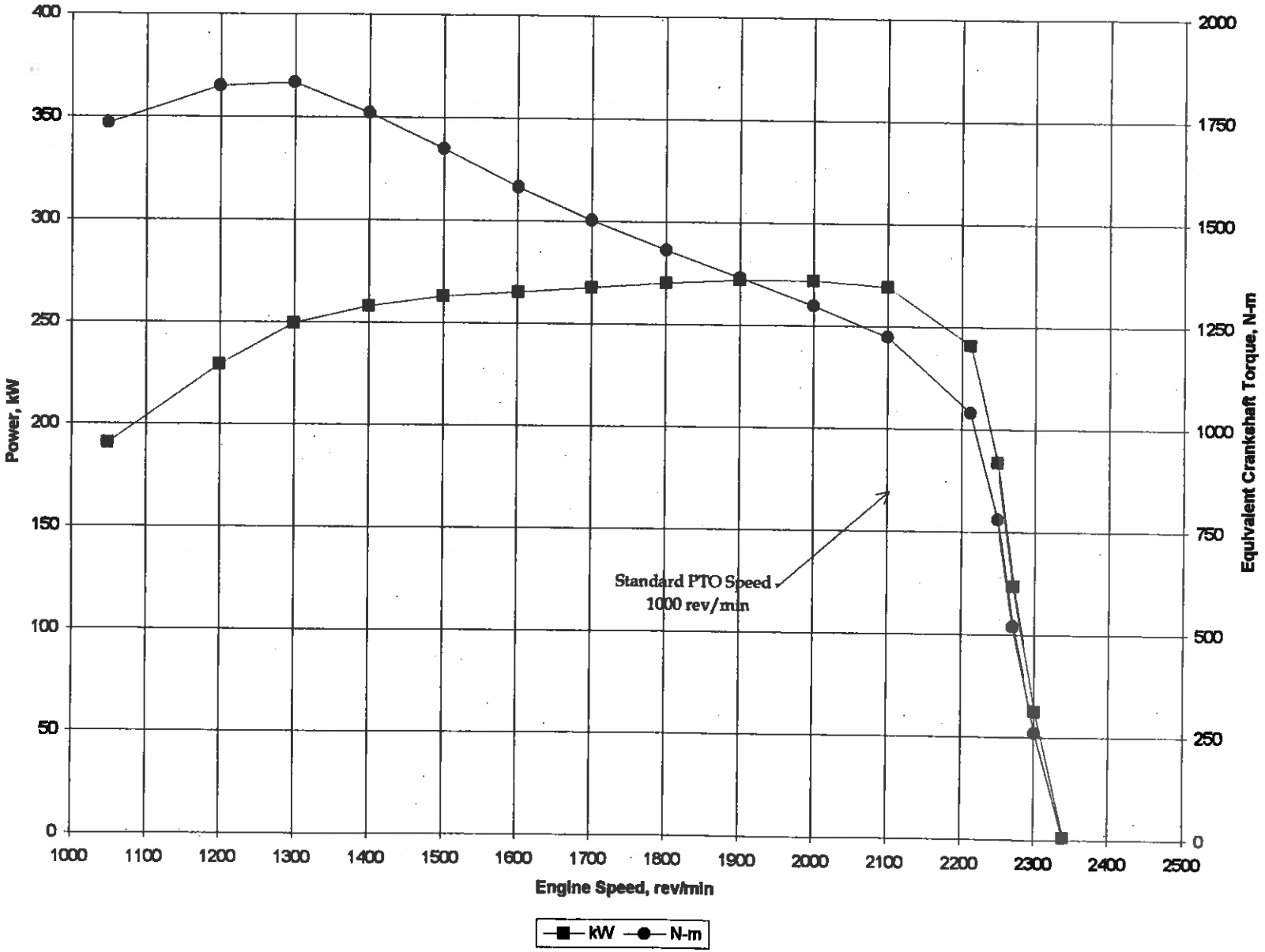
Gear	Power kW	Pull kN	Speed km/h	Engine speed rev/min	Slip	SFC kg/kW.h	SFE kW.h/l	Temperature, deg C Fuel	Coolant	Oil	Dry	Wet	Rel hum-idity	Baro. Pres kPa
I. Maximum Power (unballasted, 4wd at 2000 rev/min)						Tire pressure:		83 kPa, rear		83 kPa, front		Drawbar height:		432 mm
*2	180.85	147.42	4.42	2235	9%	0.323	2.61	59	83	111	17	13	66%	98.34
*3	218.16	148.67	5.28	2161	8%	0.307	2.74	59	83	111	17	13	66%	98.34
4	231.68	136.10	6.13	2000	5%	0.282	2.98	58	84	112	18	13	62%	98.37
5	238.39	113.74	7.55	2003	4%	0.271	3.11	61	86	114	18	13	62%	98.34
6	238.82	91.66	9.38	2000	3%	0.269	3.13	61	86	114	18	13	58%	98.31
7	239.90	77.26	11.18	2008	2%	0.268	3.14	61	86	114	19	14	59%	98.27
8	239.61	63.66	13.55	2002	2%	0.269	3.12	61	86	113	19	14	59%	98.31
* Note: Slip limited to avoid excessive tractor bouncing.														
II. Part loads (unballasted, 4wd)														
II.1 in selected gear at maximum power at rated engine speed														
7	239.93	73.87	11.69	2098	2%	0.275	3.06	61	86	114	19	14	59%	98.24
II.1.1 75% of pull at maximum power at rated engine speed														
7	191.81	55.42	12.46	2223	1%	0.307	2.74	61	84	113	20	14	56%	98.27
II.1.2 50% of pull at maximum power at rated engine speed														
7	130.41	36.88	12.73	2260	1%	0.359	2.34	60	83	111	20	14	56%	98.27
II.1.3 higher gear at reduced engine speed, same pull and travel speed as II.1.1														
8	191.93	55.35	12.48	1840	2%	0.265	3.17	60	83	111	20	14	56%	98.27
II.1.4 higher gear at reduced engine speed, same pull and travel speed as II.1.2														
8	130.71	36.88	12.76	1871	1%	0.306	2.75	60	83	109	20	14	56%	98.27
II.2 in selected gear nearest to 7.5 km/h at rated engine speed														
5	237.96	107.89	7.94	2099	3%	0.279	3.02	61	86	114	18	13	62%	98.34
II.2.1 75% of pull at maximum power at rated engine speed														
5	191.52	80.69	8.54	2233	2%	0.307	2.74	61	84	113	19	14	59%	98.31
II.2.2 50% of pull at maximum power at rated engine speed														
5	130.64	53.86	8.73	2263	1%	0.358	2.35	60	83	111	19	14	59%	98.31
II.2.3 higher gear at reduced engine speed, same pull and travel speed as II.2.1														
7	191.24	80.75	8.53	1534	2%	0.251	3.36	61	83	111	19	14	59%	98.31
II.2.4 higher gear at reduced engine speed, same pull and travel speed as II.2.2														
7	130.47	53.80	8.73	1557	1%	0.265	3.18	60	83	109	19	14	59%	98.31

OECD Drawbar Data (US)

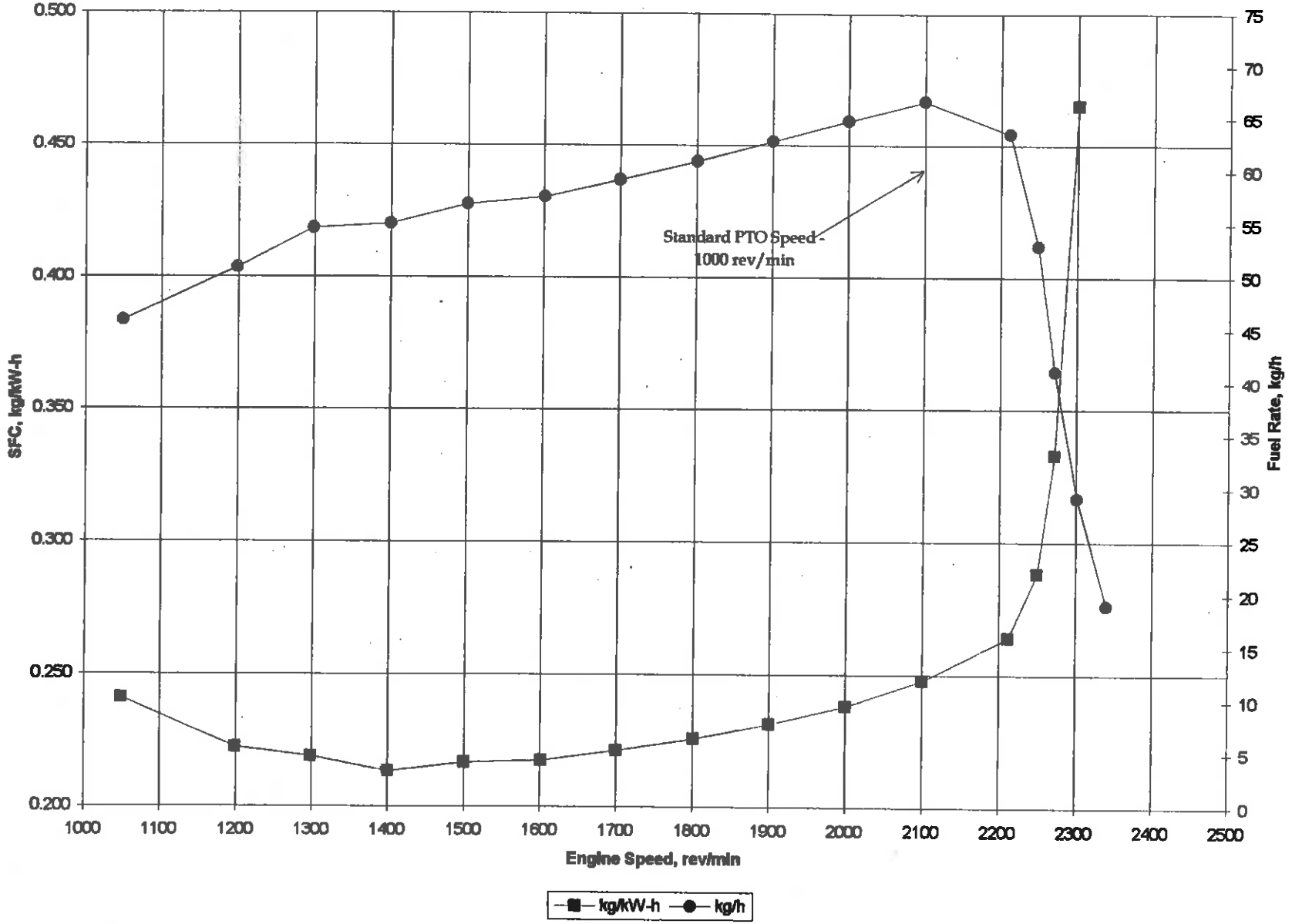
Date of tests: 03-Jun-96 Fuel density: 7.021 lb/gal
Type of track: Concrete Test number: 1714

Gear	Power hp	Pull lb	Speed mph	Engine speed rev/min	Slip	SFC lb/hp.h	SFE hp.h/gal	Temperature, deg F Fuel	Coolant	Oil	Dry	Wet	Rel hum-idity	Baro. Pres in Hg
I. Maximum Power (unballasted, 4wd at 2000 rev/min)						Tire pressure:		12 psig, rear		12 psig, front		Drawbar height:		17.0 in
*2	242.53	33142	2.74	2235	9%	0.531	13.24	139	182	231	63	56	66%	29.04
*3	292.55	33422	3.28	2161	8%	0.504	13.93	138	182	232	62	55	66%	29.04
4	310.69	30597	3.81	2000	5%	0.463	15.15	137	183	234	64	56	62%	29.05
5	319.69	25569	4.69	2003	4%	0.445	15.77	142	186	238	64	56	62%	29.04
6	320.26	20606	5.83	2000	3%	0.442	15.88	142	187	238	65	56	58%	29.03
7	321.71	17370	6.95	2008	2%	0.441	15.92	143	186	238	66	57	59%	29.02
8	321.33	14312	8.42	2002	2%	0.443	15.86	142	186	236	66	57	59%	29.03
* Note: Slip limited to avoid excessive tractor bouncing.														
II. Part loads (unballasted, 4wd)														
II.1 in selected gear at maximum power at rated engine speed														
7	321.75	16608	7.27	2098	2%	0.452	15.54	142	186	238	66	57	59%	29.01
II.1.1 75% of pull at maximum power at rated engine speed														
7	257.23	12458	7.74	2223	1%	0.505	13.89	141	184	236	68	58	56%	29.02
II.1.2 50% of pull at maximum power at rated engine speed														
7	174.88	8290	7.91	2260	1%	0.590	11.90	141	181	232	68	58	56%	29.02
II.1.3higher gear at reduced engine speed, same pull and travel speed as II.1.1														
8	257.38	12444	7.76	1840	2%	0.436	16.10	140	182	232	68	58	56%	29.02
II.1.4 higher gear at reduced engine speed, same pull and travel speed as II.1.2														
8	175.28	8292	7.93	1871	1%	0.504	13.93	139	181	229	68	58	56%	29.02
II.2 in selected gear nearest to 4.6 mph at rated engine speed														
5	319.11	24255	4.93	2099	3%	0.458	15.33	142	186	238	64	56	62%	29.04
II.2.1 75% of pull at maximum power at rated speed														
5	256.83	18139	5.31	2233	2%	0.505	13.89	142	184	236	67	58	59%	29.03
II.2.2 50% of pull at maximum power at rated engine speed														
5	175.20	12108	5.43	2263	1%	0.589	11.93	140	181	232	67	58	59%	29.03
II.2.3 higher gear at reduced engine speed, same pull and travel speed as II.2.1														
7	256.46	18154	5.30	1534	2%	0.412	17.03	142	182	232	67	58	59%	29.03
II.2.4 higher gear at reduced engine speed, same pull and travel speed as II.2.2														
7	174.96	12096	5.42	1557	1%	0.435	16.13	139	181	228	67	58	59%	29.03

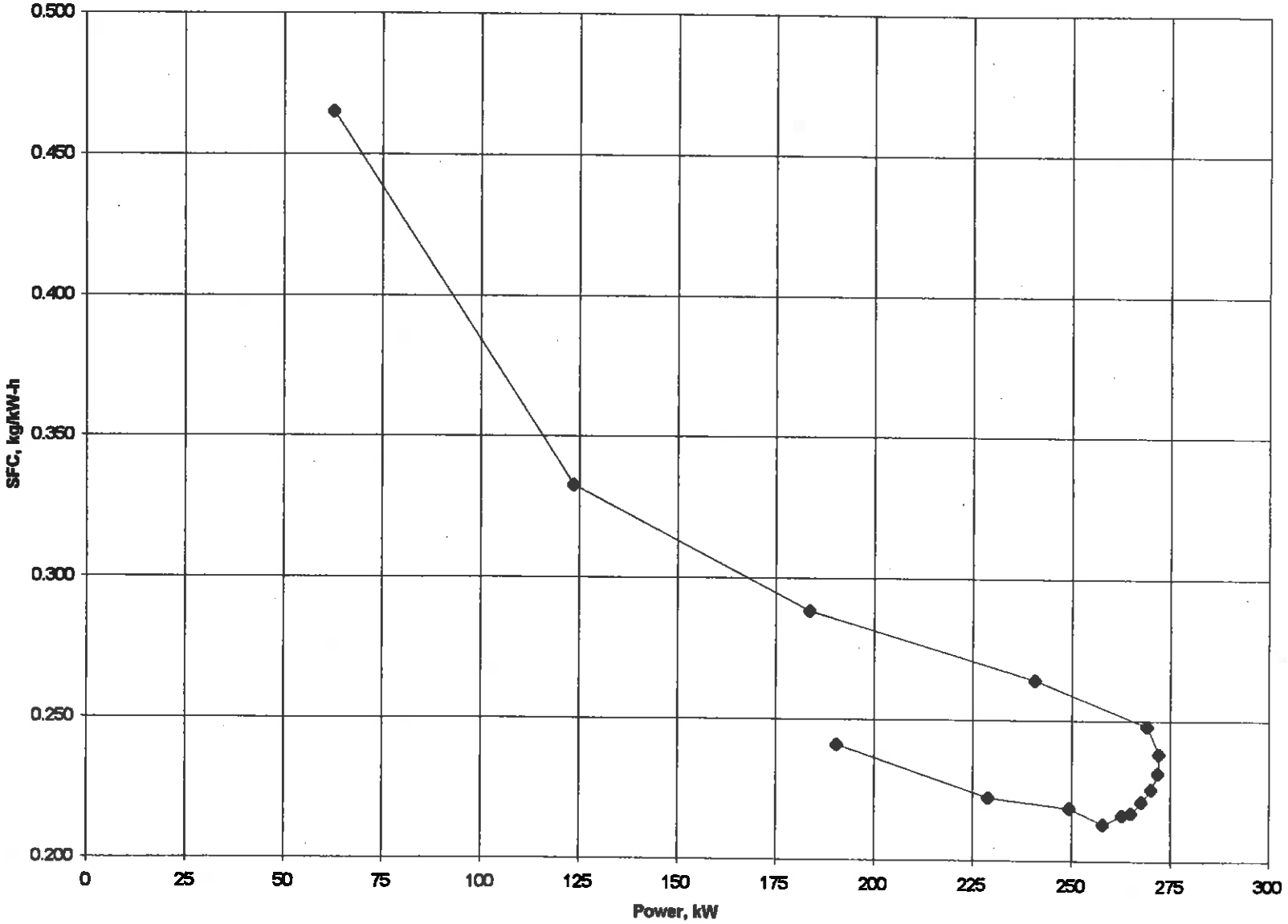
Power and Equivalent Crankshaft Torque



Specific Fuel Consumption and Fuel Rate



Power and Specific Fuel Consumption



Repairs None

Remarks According to manufacturer's instructions in the Operator Handbook, the tractor was operated with duals only in the unballasted mode.

The gears which were used for the reduced drawbar load tests were selected because the gears immediately above the full drawbar loads did not provide significant fuel consumption savings as required in sections 2.2.3.3.4 and 2.2.3.3.5