

SCANIA

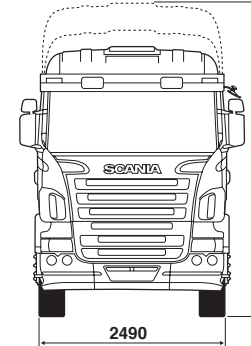
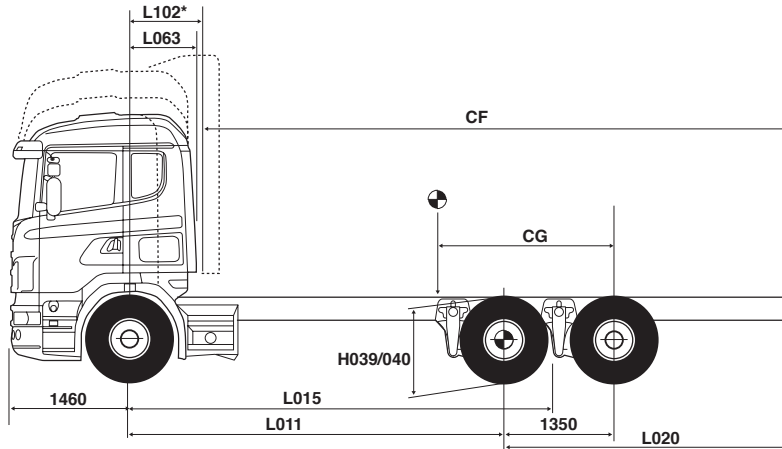
SPECIFICATION

P-, G- and R-series

R/G 400 LB6x2*4MNA

27500Kg GVW/60000Kg GTW

THREE AXLE RIGID/DRAWBAR
(REAR STEER)



G
3120 Day Cab
3360 Sleeper Cab
3560 Highline Cab
3950 Topline Cab
N/A

R
3190 Day Cab
3430 Sleeper Cab
3630 Highline Cab
3950 Topline Cab

L063 (centreline of front axle to back of cab) Short – 295 Day – 590 Sleeper – 860
L102 (centreline of front axle to start of bodywork) Short – 450 Day – 610 Sleeper – 875

* Increases by 15mm with air deflectors

DIMENSIONS (mm)

L011		3900	4100	4300	4500	4700	4900	5100	5300	5500	5700	5900	6100
L015		4433	4633	4833	5033	5233	5433	5633	5833	6033	6233	6433	6633
L105	Day cab	6636	6990	7349	7681	8064	8423	8743	8920	9096‡	9271‡	9445‡	9617‡
	(feet)	(21.8)	(22.9)	(24.1)	(25.2)	(26.5)	(27.6)	(28.7)	(29.2)	(29.8)	(30.4)	(30.9)	(31.5)
Sleeper		6143	6499	6860	7195	7581	7944	8306	8640	8816‡	8991‡	9165‡	9337‡
	(feet)	(20.2)	(21.3)	(22.5)	(23.6)	(24.9)	(26.0)	(27.3)	(28.3)	(28.9)	(29.5)	(30.0)	(30.6)
CF	Day cab	6630	6960	7340	7680	8060	8420	8740	8920	9090	9270	9440	9610
	Sleeper	6155	6505	6875	7200	7595	7955	8315	8640	8810	8990	9160	9330
L020	Day cab	3340	3500	3650	3790	3970	4130	4250	4230	4200	4180	4150	4120
	Sleeper	3130	3280	3450	3580	3770	3930	4090	4230	4200	4180	4150	4120
L020 Max		4000	4200	4200	4400	4600	4800	5000	5120	4920	4720	4520	4320
CG Max	Day cab	1567	1602	1634	1680	1700	1732	1764	1796	1826	1857	1888	1872
	Sleeper	1536	1570	1600	1645	1663	1694	1725	1755	1784	1814	1843	1825
CG Min	Day cab	1321	1345	1365	1399	1408	1429	1449	1470	1489	1508	1527	1490
	Sleeper	1288	1310	1329	1362	1369	1388	1408	1425	1443	1461	1478	1439

‡ Limited by overall length or rear swing-out regulations – 8500kg legal front axle recommended.

H039 unladen	H040 laden	Chassis Height
1012 mm	985 mm	Normal (N)
922 mm	897 mm	Low (L) ¹

¹Dimensions assume 385/55R22.5 front and 315/70R22.5 rear tyre fitment.

PLATED WEIGHTS – AWR

	Front Axle	Drive Axle	Trailing Axle	GVW	GTW
Design Gross	Kg 8500†	11500	7500	27500	60000
Legal Max in GB	Kg 8000	11500	7500	26000	44000

† Front axle capacity up to a maximum of 9000 kg available as option.
Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front	Rear Bogie	Total (kg)
3900	4893	2996	7889
4100	4888	3011	7899
4300	4898	3041	7939
4500	4898	3056	7954
4700	4903	3066	7969
4900	4908	3071	7979
5100	4913	3081	7994
5300	4923	3116	8039
5500	4933	3126	8059
5700	4943	3146	8089
5900	4953	3161	8114
6100	5153	3402	8555

Chassis cab weight includes 20 litres of fuel, oil and water.
Driver not included. See overleaf for option weights.

R/G 400 LB6x2*4MNA

SL5451106
January 10

ENGINE (EURO 5)

Scania '13 litre' vertical six cylinder in-line turbocharged intercooled direct injection diesel with Scania XPI.

	'400'
Type:	DC 13-05
Swept Volume:	12.74 litres
Bore:	130 mm
Stroke:	160 mm
Compression Ratio:	17:1
*Max. Power:	294kW (400 h.p.) at 1900 rev/min
*Max. Torque:	2100 Nm (1549 lbf.ft) between 1000 & 1300 rev/min
Engine Management System:	EMS incorporating Cruise Control and speed limiter
Emission Control:	Scania EGR
Cooling:	Water cooled with rubber mounted 2 row radiator and electronically regulated fan
Coolant Capacity:	55 litres
Oil Capacity:	40 litres
Air Cleaner:	Dry replaceable paper element
Engine Driven P.T.O. provision:	ED120

Options:-

(1) Details as above except for the following:-

	'440'
Type:	DC13-10
*Max. Power:	324kW (440 h.p.) at 1900 rev/min
*Max. Torque:	2300 Nm (1696 lbf.ft) between 1000 & 1300 rev/min

(2) Details as above except for the following:-

	'480'
Type:	DC13-07
*Max. Power:	353kW (480 h.p.) at 1900 rev/min
*Max. Torque:	2500 Nm (1844 lbf.ft) between 1000 & 1300 rev/min

*With fan at max. slip

CLUTCH

Type:	Single dry plate
Operation:	Air assisted with clutch wear protection

GEARBOX

Type: Scania GRS0905 fourteen speed overdrive with synchromesh on all except two crawler gears. Incorporating range change and splitter

Oil Capacity: 15.6 litres

Options:-

(1) Oil cooler – standard with DC13-10 and DC13-07 engines

GEAR RATIOS

	Low Range Split		High Range Split	
	L	H	L	H
Crawler	13.28:1	10.63:1		
	9.16:1	7.33:1	2.44:1	1.96:1
	5.82:1	4.66:1	1.55:1	1.24:1
	3.75:1	3.00:1	1.00:1	0.80:1
Reverse	11.95:1			

Options:-

(1) Type: Scania GRS905 fourteen speed range change/splitter including two crawler gears

(2) Opticruise: Gearchange management system.

REAR AXLE

Type:	Drive: Scania ADA1300
	Trailing: Scania ARA900
Capacity:	Combined 19000 Kg

Pressed steel housing with magnetic oil drain plug.

REAR AXLE GEAR

Type: Scania R780
Single reduction hypoid. Crown wheel and pinion matched during manufacture. Pneumatically operated differential lock.

FRONT AXLE

Type: Scania AM950 I section rigid beam
Scania AMA860 with air suspension
Capacity: AM950 - 9000Kg
AMA860 – 8000Kg

STEERING

Type: Recirculating ball. Hydraulically assisted power steering to first and last axle.
Steering wheel: Diameter 450mm. Lock to lock 4.9 turns
Turning circle: Kerb to kerb

3.9m A/D	14.5m	4.1m A/D	15.3m	4.3m A/D	16.0m
4.5m A/D	16.7m	4.7m A/D	17.4m	4.9m A/D	18.2m
5.1m A/D	18.9m	5.3m A/D	19.6m	5.5m A/D	20.4m
5.7m A/D	21.1m	5.9m A/D	21.8m	6.1m A/D	22.5m

SUSPENSION

Type Front: Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins.
Type Rear: Quarter elliptic with air bellows (A) on both axles. (2 bag) Pneumatic tag-axle hoist. Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to all axles.

Options:- (1) Front anti-roll bar

SPRING SIZE

Front

Length:	1820mm
No. of leaves	3 x 29mm
Design Capacity	8500Kg

Options:-

- (1) Air suspension on front axle – design capacity 8000 kg.**
(2) 4 x 28mm leaves – design capacity 9000 kg.

WHEELS & TYRES

Front: 9.00 x 22.5 ten stud spigot mounted disc wheels fitted with 315/80R22.5 radial tubeless tyres.
Drive: 9.00 ten stud spigot mounted disc wheels fitted with 315/80R22.5 radial tubeless tyres.
Rear: 9.00 ten stud spigot mounted disc wheels fitted with 315/80R22.5 radial tubeless tyres.

Options:-

- (1) 11.75 x 22.5 wheels with 385/65R22.5 or 385/55R22.5 tyres - steered axles only**
(2) Aluminium wheels - machined or polished surface finish
(3) Wheel embellishers - steered axles only
(4) Tyre Pressure Monitoring – TPM

FRAME

Type: F950-50 – 3.9 to 5.9m A/D
F958-50 for 6.1m A/D and all 'H' duty class.
Flat top constant depth 'U' channel with riveted crossmembers

Sidemember Dimensions:

F950 – 270 x 90 x 9.5mm
F958 – 270 x 90 x 9.5mm External member
– 247 x 78 x 8mm Internal member

Pre-drilled for bodywork mounting brackets.

Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

- Options:- (1) Steel bumper – increases front overhang to 1510mm.**
(2) Centre tow pin – steel bumper only

BRAKE SYSTEM

Type: Ventilated disc brakes on all axles. Dual circuit, full air, EC brake system incorporating Category 1 ABS and Traction Control. 2 line EC trailer brake pipes to rear section of chassis. Electronic signalling with pneumatic back-up. Pad wear indicator. Brake pipes manufactured from either rust protected steel or high impact synthetics

Service Circuit: Actuates all truck and trailer brakes

Secondary Circuit: First position of park brake lever actuates spring brakes plus trailer brakes.

Parking Brake: Actuates spring chambers on drive and last axles.

Exhaust Brake: Air actuated operated by brake pedal

Brake Antifreeze Protection: Air dryer

Brake Wear Adjusters: Automatic

Options:-
(1) Scania Hydraulic Retarder.

BRAKE DIMENSIONS

Pad lining area: 2 x 190cm² on all axles

Swept area of each disc: 2 x 940cm²

ELECTRICAL SYSTEM

Type: 24V neg (-ve) earth **Alternator:** 100A

Batteries: Twin 180Ah

Rear H.L. lamps, Reversing lights, Battery connection - 200A

Options:-
(1) 140Ah batteries, (2) 225Ah batteries, (3) Bodywork electrical preparation – see separate document.

FUEL TANK

1 x 300 litre aluminium RHS

Options:- (Minimum axle distance and suspension type in brackets)

	RH Side	LH Side	Aluminium - W	RH Side	LH Side
Steel - G	150	150	200	200	200
	200		300	300	
	300	300	350	350	350
	450	450	400	400	400
			500	500	
			600	600	
			700	700	(4100)

Tank sizes can be supplied in LH + RH combinations of the above but steel and aluminium cannot be mixed. Sides viewed from rear.

GENERAL EQUIPMENT

Front tow pin

Options:-

- (1) Vertical exhaust outlet – N/A with ADR to EXIII/EXIII or FL.**
(2) ADR to EXIII/EXIII, FL, OX or AT.

INSTRUMENTS & CONTROLS

Two man, 1 day, EC digital tachograph, rev-counter and gauges for coolant temperature and fuel. Central display for vehicle information and warning messages. Six speed wipers with intermittent wipe and four jet integral screen wash. Halogen headlamps adjustable from cab for correction of beam height. Warning lights for all major systems grouped within easy vision.

Instrument panel of modular design with switches and controls grouped according to usage. All instruments are back-lit and non-reflective. Impact absorbing, adjustable steering wheel with column lock.

CAB

CR19 Sleeper Cab

Please see separate specification – 'Scania Cabs' for equipment levels.

Options:-

- (1) CR16 Day Cab, (2) CR19 Highline, (3) CR19 Topline, (4) CG14 Short Cab, (5) CG16 Day Cab, (6) CG19 Sleeper, (7) CG19 Highline.**

P.T.O. OPTIONS Check gearbox availability

	Rear Mount	GR875 / GRS895 / GR/S905	GRS0905
Pump	Flange		
¹ EG640P	¹ EG640F	1.65 / 2.04H	
¹ EG641P	¹ EG641F		1.33 / 1.67H
EG650P	EG660F	1.00 / 1.24H	
¹ EG651P	¹ EG661F	1.28 / 1.58H	
EG652P	EG662F		0.82 / 1.03H
¹ EG653P	¹ EG663F		1.03 / 1.29H
	Side Mount		
EG500P	EG500F	1.33 / 1.65H	
EG501P	EG501F		1.78 / 2.22H
² EG502P	² EG502F	1.33 / 1.65H	
² EG503P	² EG503F		1.78 / 2.22H
	Sandwich		
EK730	EK740	1.00	1.00

¹ = Not in combination with side mounted P.T.O.

² = Not in combination with rear mounted P.T.O.

H = High on 'S' splitter gearboxes only.

Flange output rear mount N/A on 6x2/4 or 6x2/2 chassis

WEIGHTS FOR OPTIONAL EQUIPMENT IN KILOGRAMS (Front – Rear – Total)

Axle Distance	39	41	43	45	47	49	51	53	55	57	59	61
Front anti-roll bar	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33
Air suspension front	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55
4x28mm f/springs	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28	+28 0 +28
385/55 tyres/ 11.75 rims	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60	+30 +30 +60
385/65 tyres/ 11.75 rims	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76	+38 +38 +76
Aluminium Wheels												
9.00x22.5	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120	-30 -90 -120
11.75x22.5	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88	-44 -44 -88
F958-50 frame	+105 +190 +295	+105 +190 +295	+110 +195 +305	+110 +195 +305	+115 +195 +310	+120 +200 +320	+130 +200 +330	+130 +210 +340	+140 +210 +350	+140 +220 +360	+150 +220 +370	Std
Steel bumper	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17	+19 -2 +17
FUP – steel bumper	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54
Centre tow pin	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24
Retarder	+86 +27 +113	+87 +26 +113	+87 +26 +113	+89 +24 +113	+91 +22 +113	+92 +21 +113	+92 +21 +113	+94 +19 +113	+95 +18 +113	+95 +18 +113	+95 +18 +113	+95 +18 +113
180 Ah batteries	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17
225 Ah batteries	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56
Std tank-full	+138 +86 +224	+142 +82 +224	+145 +79 +224	+149 +75 +224	+151 +73 +224	+154 +70 +224	+157 +67 +224	+159 +65 +224	+161 +63 +224	+163 +61 +224	+165 +59 +224	+167 +57 +224
*1x450l G	+71 +100 +171	+75 +96 +171	+79 +92 +171	+83 +88 +171	+86 +85 +171	+89 +82 +171	+92 +79 +171	+95 +76 +171	+97 +74 +171	+100 +71 +171	+102 +69 +171	+104 +67 +171
Vertical exh outlet	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57
CR16 cab w/o defl	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167	-151 -16 -167
CR19 Highline cab	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29	+27 +2 +29
CR19 Topline inc. defl	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79	+71 +8 +79
CG14 short cab	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210	-190 -20 -210
CG16 day cab	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184	-170 -14 -184
CG19 sleeper cab	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29	-26 -3 -29
CG19 Highline cab	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7	+7 0 +7
Air deflectors-CR16	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42
-CG16	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42
-CG19	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47	+41 +6 +47
EG series PTOs	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18
EK series PTOs	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47

* Additional to standard tank full of fuel.

SCANIA

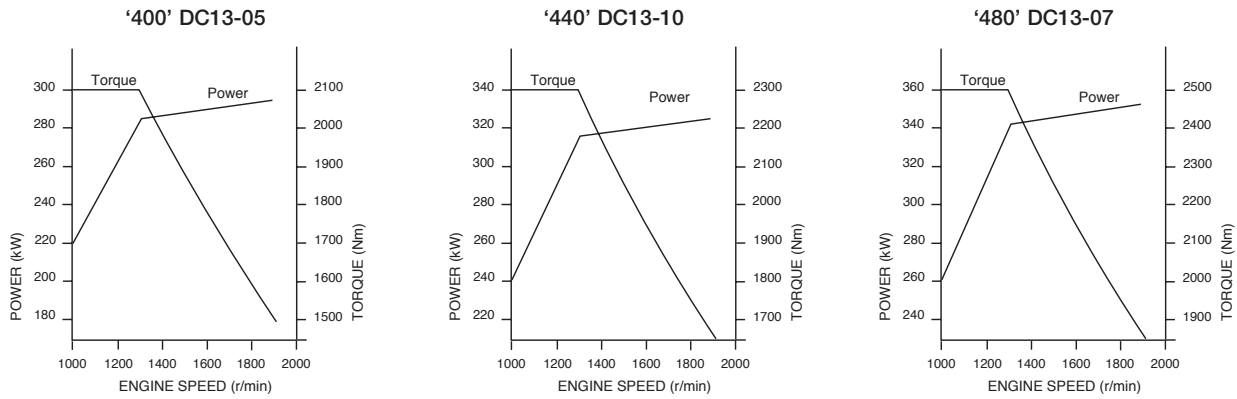
S P E C I F I C A T I O N

R/G 400 LB6x2*4MNA

27500Kg GVW/60000Kg GTW

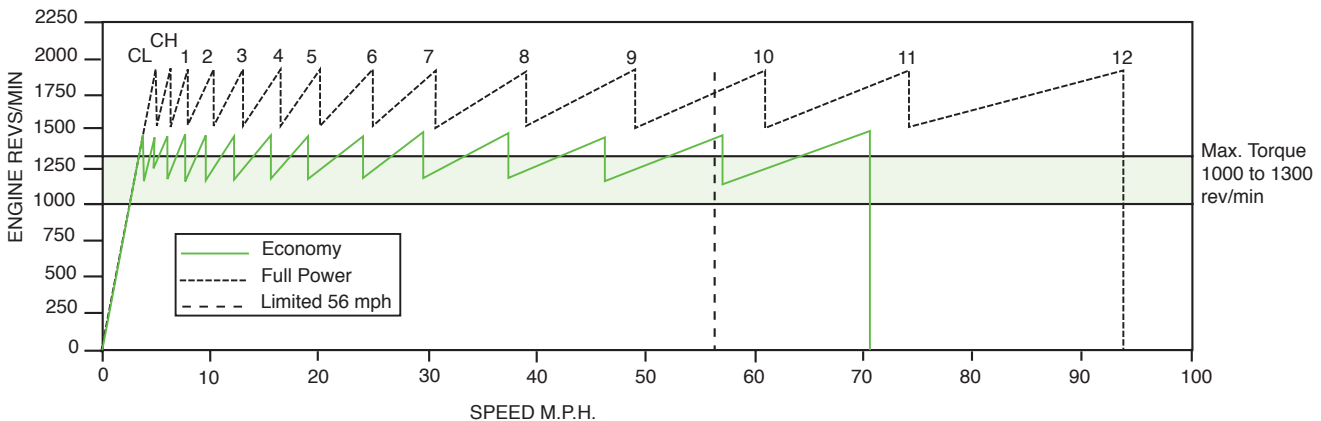
THREE AXLE RIGID/DRAWBAR
(REAR STEER)

ENGINE PERFORMANCE



Net engine performance to 80/1269*1999/99EC

GEAR STEP DIAGRAM



SPEED/GRADEABILITY

Gradeability may be limited by tyre adhesion.

Axle gear/ Ratio	Geared Speed M.P.H.		Gradeability - steady climb - in percent					
	11th	12th	DC13-05		DC13-10		DC13-07	
			44T	60T	44T	60T	44T	60T
R 780 2.92*	75.1	93.8	>35	26.0	>35	28.7	>35	32.2
R 780 3.08 Std	75.1	93.8	>35	25.8	>35	28.6	>35	32.0
R 780 3.27	70.8	88.4	>35	27.6	>35	30.5	>35	34.2
R 780 3.42	67.6	84.5	>35	29.0	>35	32.1	>35	>35
R 780 3.80	60.9	76.1	>35	32.6	>35	>35	>35	>35

*2.92 shown with low profile tyres – calculations based on 315/70R22.5 rear tyres.

Remaining calculations assume standard specifications. Performance achieved in operation will depend on conditions, bodywork, gear ratios and tyre specification.

The specifications contained in this publication are intended as a general guide, and not as representations as to the product described, nor as binding in detail.



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