

# PREMIUM ROUTE

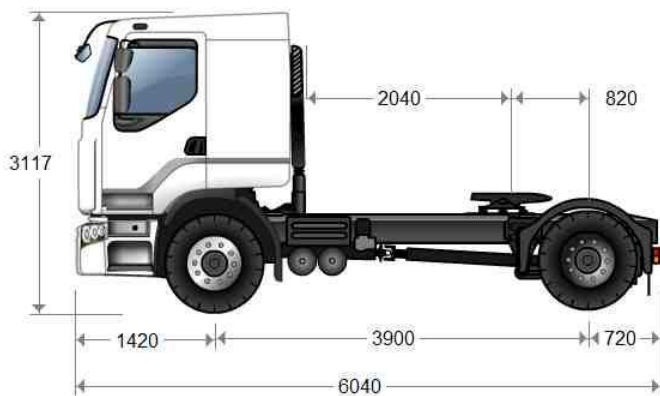
## PREMIUM 460.19 4X2 T TANKER

TRACTOR UNIT

GVW 19.00 T      GCW 44.00 T  
GVW 19.00 T      GCW 40.00 T  
GVW 19.00 T      GCW 50.00

**Model code** 24TF07100058

GVW 19.00 T / GCW 40.00 T  
SLEEPER CAB  
REAR AIR SUSPENSION



**WEIGHTS**

Wheelbase		mm	3.700	3.900
Maximum Weight (registered)	Total (GVW)	Kg	19000	
Payload	(C)	Kg	12200	12186
Kerb Weight	total	Kg	6800	6814
Chassis cab kerb weight	Front axle(s) (Liftable axle down)	Kg	4654	4678
	Rear axle(s) (Liftable axle down)	Kg	2146	2136
Maximum Weight (registered)	Front axle(s)	Kg	7100	
	Rear axle(s)	Kg	12600	

The weight of the vehicle is an average indicative weight of its STANDARD build constitution, without driver, without passenger and without options. It is understood to be in working order with full tanks (see FUEL TANK chapter), on board tooling

**LENGTHS**

Wheelbase	mm	3.700	3.900
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	(F / BEP L011)	mm	3700	3900
Rear overhang	Chassis (BEP L020)	mm	720	
Overall Chassis Length	(A / BEP L032+L016)	mm	5840	6040
Front Overhang	(H / BEP L016)	mm	1420	

**HEIGHTS**

Wheelbase		mm	3.700	3.900
Frame top height at drive axle	Unladen (H2 / BEP H037)	mm	961	
	Laden (H2 / BEP H038)	mm	940	
Cab height (unladen)	(O)	mm	3118	3117
Ground clearance, laden	Front (U1 / BEP H015)	mm	202	
	Rear (U3 / BEP H016)	mm	244	

**WIDTHS**

Wheelbase		mm	3.700	3.900
Max. cab width	(BEP W002)	mm	2500	
Track	Front (V1 / BEP W013.1)	mm	2017	
	Rear 1 (V2 / BEP W013.2)	mm	1834	
Width at rear wheels	Rear axle 1 (V3 / BEP W003.1)	mm	2474	
Frame width	Rear (BEP W036)	mm	850	
	front (BEP W035)	mm	1080	

**TOWING DEVICE**

Wheelbase		mm	3.700	3.900
Fifth wheel position	Manufacturer's recommendation (Y / BEP L076)	mm	620	820
	Max. (Ymax / BEP L075)	mm	820	870
	Min. (Ymin / BEP L077)	mm	420	520
Swept Swing Clearance	(BEP L078)	mm	2040	

**OTHER**

Wheelbase		mm	3.700	3.900
Turning Radius	Overall (BEP W012)	mm	7440	7750

## DXi11 ENGINE

**Max Power: 460hp (338 kW) at 1800rpm.**

**Max. Torque: 2200 Nm from 950 to 1400rpm.**

6-cylinder in-line diesel engine - High-pressure fuel-injection (2000 bar) by 2nd generation electronically governed unit injector pumps (EMS). - 24 valves, overhead camshaft, rear-mounted timing

Bore 123 mm - stroke 152 mm - capacity 10.8 litres

Turbocharger

High-capacity oil filter with disposable cartridge

Engine oil capacity: 36 litres

Cooling system capacity: 44 litres

electronic starter

Electronically controlled fan

Direction of rotation (seen from G/B end): anti-clockwise.

Antifreeze protection: -25°C.

EEC Emissions level EURO 5.

SCR post-treatment system with AdBlue injection controlled electronically.

Reduction in engine power of 40% when vehicle emissions are above the legislative levels.

Soundproofing level complies with EEC standards (80dB)

### OPTIONS

- EURO 5 EEV (Enhanced Environmentally friendly Vehicle)

## ENGINE EQUIPMENT

Power mode is activated by passing the 'hard spot' at the end of the accelerator pedal stroke (kick down)

Electronic idling control.

Electronic speed limiter (90 km/h).

## CLUTCH

Single-plate clutch:

SAE 430 DBP 18000 pushed on DXi7 engine, 430 GD 900 on DXi11 engine (MFZ on Optidriver)

Hydraulic control and pneumatic assistance. Automatic adjustment

## GEARBOX

Optidriver AT 2412D TD (14.94 - 1) gearbox and automated clutch. Housing in aluminium.

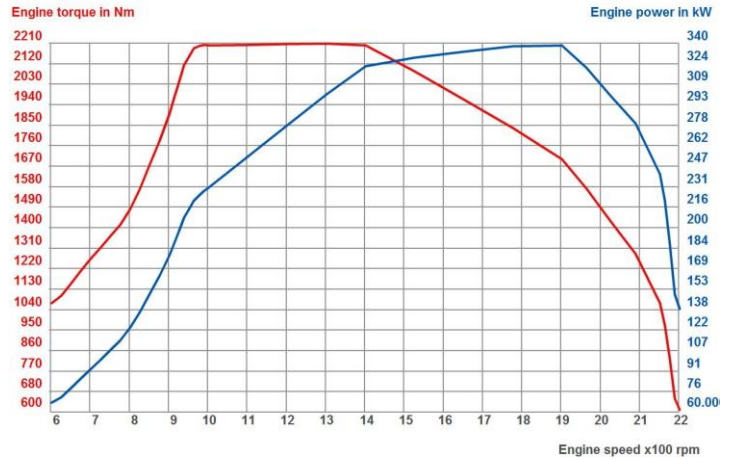
12 forwards gears and 3 reverse gears.

Mode of use control (automatic/manual) on steering wheel.

Steering wheel mounted gear selector.

### OPTIONS

- ZF 16 S 2230 TD  
16 synchromesh forward gears and 2 reverse gears (16.41 - 1). Aluminium casing. Pneumatic range splitter with preselection switch on the lever.  
Super H gear grid controls.  
SERVOSHIFT assisted gear changing.



Cable-operated control. Economic driving assistance with DMS (Driving Monitoring System).

## RETARDER

OPTIBRAKE:

Combination of the exhaust brake and valve compression braking, coupled to service brake and managed electronically with a power of 330 kW at 2300rpm.

### OPTIONS

- ZF HYDRAULIC RETARDER :  
Power : 500 kW.  
Braking torque : 3500 Nm.  
Controls (at steering wheel) : 5 positions.  
Totally integrated to the gearbox.
- Exhaust brake (135 kW at 2100 rpm) controlled and regulated by full-time solenoid valve (between 2 and 7.5 bars).  
Retarder coupling to service brake.

## POWER TAKE-OFFS

Without gearbox mounted PTO

### OPTIONS

- PTO S81 B.  
Output: flanged. Rotation: opposite to engine  
Torque: 600 Nm  
Ratios: 0.70/0.90  
Position: 6 o'clock
- PTO S81 C.

Output: hollow splined shaft for flanged pump.

Rotation: opposite to engine

Torque: 600 Nm.

Ratios: 0.70:0.90

Position: 6 o'clock

PTO S84 B.

Outlet : plate.

Rotation : same as engine

Torque : 430 Nm

Ratios : 0.91:1.16

Position : 17h

PTO S84 C.

Outlet : hollow splined shaft for flanged pump.

Rotation : same as engine

Torque : 430 Nm

Ratios : 0.91:1.16

Position : 17h

PTO PTR D-D1D (2 outputs) on OPTIDRIVER:

- First output (direction as engine):

splined hollow shaft for pump.

Torque: 1000 Nm.

Ratios: 0.6:0.77

- Second mixed output (direction opposite to engine):

Plate DIN120

Torque 550 Nm.

Ratios: 1.3:1.65

Position: 4 o'clock

PTO N221/10 B 730 Nm.

PTO N221/10 C 730 Nm.

PTO N221/10 B 870 Nm.

PTO N221/10 C 870 Nm.

PTO N221/10 C 560 Nm.

Outlet : Flanged 100 mm dia.

Rotation : as engine

Torque : 560 Nm.

Ratios : 1.75:2.09

Position : 16h

Additional PTO S81 Z2 C

Outlet: splined hollow output shaft. Direction of rotation: opposite engine.

Additional PTO S84 Z2 C

## STEERING

Hydraulic steering box with variable step-down power assistance.

## AXLE

Front axle: E 72 A, 125 mm offset.

Load capacity (technical max.) Front axle: 7.1 t.

## REAR DRIVE AXLE

P 13170 (2nd generation) rear axle, single reduction.

Rear axle hypoid ratio 13 x 37 (ratio 2.84).

## OPTIONS

- Inter-wheel diff. lock, engagement possible at low speeds (managed by EBS).

- Other drive axle ratios are available

## WHEELS AND TYRES

Steel disc wheels

Wheel nut protection covers.

Spare wheel with jack, delivered loose.

## OPTIONS

- Alcoa matt aluminium wheels.
- Spare wheel, tyre and carrier in wheelbase with jack.

## BRAKING

### Service brake:

Air/electric braking system, with 2 independent circuits, electronically managed (EBS).

All disc brakes.

Electronic management of air production by EAC (Electronic Air Control):

Dryer cartridge optimised by preventive maintenance.

Twin-cylinder air compressor 636 cm<sup>3</sup> with energy economiser.

Aluminium air tanks.

Semi-trailer brake

Air hoses with ISO heads.

EBS, 7-channel electricity cable

15-channel trailer electricity cable.

### EBS+:

- Anti-wheel lock braking system (ABS).

- Emergency braking assist (AFU).

- Anti-wheel spin (ASR).

- Drag torque control (Torque control during downshifting).

- Brake harmonisation of tractor and trailer.

- Hill start assist.

- Manage engagement of differential (if fitted) whilst moving at <10 km/h. (4x2).

- Brake pad wear balancing.

- Brake performance warning.

- Test trailer coupling.

### Parking brake:

With air control, immobilisation ensured by spring cylinders.

Hand brake valve.

### Brake adjustment:

Automatic brake lining slack compensation.

### Emergency brake:

Ensured by independence of main device circuits

## OPTIONS

Wheel antilock braking system (ABS).

Emergency braking assist (AFU).

Wheel anti spin regulation (ASR).

Drag torque control.

Harmonisation of tractor and trailer braking.

Hill Start Aid.

Differential engagement management (if fitted) at speed <10 km/h (4x2).

Brake pad wear balancing.

Brake performance warning.

Coupling traction test.

ESC trajectory control and anti-rollover system (Electronic Stability Control)

## CAB

### Cab exterior:

All steel Cab, electro-zinc plated and cataphoretic paint treatment.

Sleeper Cab (2.2m)

Cab paint colour: WHITE EKLA

Aerated front grille including lighting, closing handle.

Anti-spray deflectors

3-part bumper.

Road cab finish with:

Rearview mirrors and metal-grey radiator grille, colour-coded bumper and stepwell, chrome headlight interiors.

Non-slip windscreen access steps

4-point cab air suspension with ride-height control system

2 heated, remote control rear view mirrors.

Wide angle rear view mirror.

Kerb view mirror.

Front view mirror.

Roof-level air intake.

Air intake ducting on right side of roof.

Access to driving position by 2 stepwell steps.

Step lighting.

Provision for mounting external sun visor.

Tinted and laminated windscreen and windows.

Without glazing to back of cab.

### OPTIONS

- Electrically operated cab tilt.
- Roof horns.
- Adjustable deflector (supplied loose), from 540 to 800mm.
- External sun visor
- Deluxe external sun visor in two colours with marker lights and predisposition for additional lights

### Cab interior:

Standard roof.

Upper storage areas, 2 compartments (50l) with net covers.

Radio CD : Tuner FM / AM, CD player. 2 HP 130mm Woofer, 2 HP19mm Tweeter .

Remote controls at steering wheel.

CB pre-equipment.

Double readout ADR digital tachograph with recording of engine speed.

Electrically operated roof hatch.

Air-suspended driver's seat with fitted seat belt.

Lifting driver's armrest.

Luxury door lining.

Soft texture, grey metal grab handles.

Oddments tray in doors.

Air-suspended passenger seat with seatbelt.

Air blower socket on gearshift console.

Cab lighting time-delay.

Curtains around cab. Curtain separating driving position from rest area.

One bunk, 2022mm x 780mm x 150mm thick.

Removable mattress.

Coat hook.

Electrically operated door windows

Reinforced cab sound insulation

Air conditioning

Handbook and Service pack in French.

2 kg fire extinguisher in cab, accessible from inside and outside the cab

### OPTIONS

- Raised roof.
- Radio CD / MP3: Tuner AM / FM, CD player (MP3 / WMA/ WAV). Hands-free Bluetooth function. Integrated USB connector in upper front storage cupboard. 2 HP 130mm Woofer, 2 HP19mm Tweeter. Information displayed on driver's display screen.
- Remote controls at steering wheel.
- Electrical sun roof (glass).
- Air-suspended COMFORT driver's seat, with fitted seat belt, lumbar support, heated cushion and seatback, seat depth adjustment
- Passenger seat armrest.
- Driver and passenger seat armrest.
- Air-suspended COMFORT passenger seat, with safety belt, lumbar support, heated cushion and seatback, seat depth adjustment and headrest.
- Leather seat trim.
- Lower bunk 2022 x 780, thickness 150 and fold-back upper bunk.
- Coat hanger.
- 30 litre refrigerator under bunk.
- Infra-red remote control for operating the radio

### Steering wheel equipment:

Adjustable, 4-spoke steering wheel.

Steering wheel cruise control (engine speed regulator) controls.

OPTIDRIVER control

2-speed windscreen wipers with incorporated wash jets and intermittent wipe.

OPTIBRAKE and retarder control.

### Instrument panel:

Panoramic dashboard including:

- large central storage.
  - drawer (capacity 2 litres), transformable into ISO module for supplementary equipment.
  - storage tray chilled by air conditioning (capacity 9.4 litres) .
  - cup or movable ashtray location.
  - A4 size paper storage space (capacity 10 litres).
- Digital display with :
- speedometer, radio information, clock, outside temperature.
  - Driving information.
  - Driver warning messages and various menus.
  - Full display matrix.

Analogue screen :

- Central rev counter showing economic operating band, fuel, air pressure and water temperature gauges.
- Double indicator flashers (tractor and trailer).
- Function and warning lights.
- Anti-glare window.

Remote radio controls at steering wheel.  
 - Adjustable screen lighting intensity.  
 12V socket on dashboard, for accessories.  
 Starting inhibitor controlled by transponder key.  
 Folding key.  
 Remote control central door locking.  
 Cruise Control (speed regulator).  
 Diesel system purge control (decanter)  
 Normal engine tunnel.

## ELECTRONIC EQUIPMENT:

### ENGINE:

-all engine functions and its environment are electronically controlled (fan speed, engine brake, preheating...).

### OPTIDRIVER:

- Full management of the driveline based on the robotised gearbox, automated clutch as well as electronic control of engine and Optibrake

### EBS :

- electronically controlled braking system(see details in "Braking system" chapter above).

### EAC (Electronic Air Control):

- air pressure control and management
- air compressor management depending on vehicle requirements.
- monitoring of air dryer cartridge.

### CHASSIS AIR SUSPENSION :

- management and control of the air suspension
- ferry level : necessary for certain applications (ferrying vehicles, ferry transport...) by lowering chassis on to suspension stops

### LIGHTING AND SIGNALLING:

- interior and exterior lighting controlled electronically (progressive extinguishing, fault detection).
- activates hazard warning lights during emergency braking.

### POWER TAKE OFF :

- management of PTO by adjustment of engine speed.

SAE cab socket for vehicle data extraction (Optifuel Infomax).

Provision for TGW unit (Telematic GateWay) for subscription to service offers (Optifleet).

## OPTIONS

- Optifuel Infomax, complete kit comprising 1 installation CD, a licence and the connectors for all Renault Trucks vehicle generations

### OBD

- FMS Gateway fleet management interface.

## ELECTRICAL EQUIPMENT

Battery capacity: 185 Ah

Batteries mounted side by side on LH side.

24V voltage supplied by two batteries.

High amp fuse box in battery box.

External Master switch

Alternator : 130 amp capacity.

Halogen headlights

Lighting to EEC standards.

Headlamp levelling control.

Front fog lights.

Yellow coupling light (36W).

## OPTIONS

- Battery capacity: 225 Ah
- Xenon headlight

## CHASSIS

Chassis width : 1080 mm at front, 850 mm at rear.

Sidemember section: height 266 mm, width 90 mm, thickness 7 mm.

Standard rear overhang, pre-drilled for bodybuilder

Removable front towing cap.

Front under-run protection.

Chassis rear closing crossmember.

Fifth wheel mounting plate H = 40 mm.

Fifth wheel FONTAINE, H = 185 mm.

High chassis height

Fifth wheel position: Y = 820 mm

Rear manwalk.

Rear wings.

Raised wing position, specifically for tanker use.

Two wheel chocks with bracket.

Chassis frame protection by grey coloured epoxy paint.

## OPTIONS

- Fifth wheel H = 185 mm (cast iron - GF).
- Fifth wheel H = 185 mm (pressed metal plate - Jost JSK 36D).
- Low maintenance JOST JSK 42 fifth wheel H = 185 mm (Teflon covered cast iron plate).
- Fifth wheel H = 185 mm with locking sensor (cast-iron - FISCHER)
- Fifth wheel H = 185 mm (cast iron - Jost JSK 42).
- 2" pivot pin for GCW 70 t max.
- Extended rear platform.
- One wheel chock with bracket mounted on chassis.

## SUSPENSION

### Front suspension

Parabolic leaf springs (7.1 t) maintenance free.

## OPTIONS

- Front air suspension.
- Suspensions stroke : 250 mm.

### Rear suspension:

Rear air suspension.

Suspension travel: 250 mm.

Telescopic shock absorbers.

Rear suspension capacity: 13 t.

**OPTIONS**

- Suspension remote control
- Stabiliser bar

**FUEL TANK**

Main aluminium tank  
Air suspension control on dash board.  
Main fuel tank :490 litres capacity (417 kg of diesel).  
D- shaped profile, 710mm dia.  
Filler cap locking with key  
Sedimenter and prefilter (R60). Bleed control on dashboard.

**OPTIONS**

- Main fuel tank: 790 litres capacity (664 kg of diesel).  
D- shaped 710.
- Main fuel tank: 510 litres capacity (412 kg of diesel).  
D- shaped 710.
- Main fuel tank: 570 litres capacity (460 kg of diesel).  
D- shaped 710.
- Main fuel tank: 710 litres capacity (573kg of fuel)  
"D" shape 710 mm diameter.
- Main fuel tank: 730 litres capacity. (590 kg of diesel)  
"D" profile: 710 mm dia.
- Additional fuel tank: 330 litres capacity. (267 kg of diesel)  
"D" profile: 710 mm dia.
- Additional fuel tank: 210 litres capacity. (169 kg of diesel)  
"D" profile: 710 mm dia.
- Additional fuel tank: 490 litres capacity (417 kg of diesel)  
""D"" profile: 710 mm dia.
- Additional fuel tank: 405 litres capacity. (327 kg of diesel)  
"D" profile: 710 mm dia.
- Additional fuel tank: 285 litres capacity. (230 kg of diesel)  
"D" profile: 710 mm dia.

**GEARBOX RATIOS**

1	2	3	4	5	6	7	8	9	10	11	12
14.94	11.73	9.04	7.09	5.54	4.35	3.44	2.70	2.08	1.63	1.27	1.00

**PERFORMANCE**

Gearbox ratio	Axle ratio	Code	Final ratio	Engine rpm at max torque	Speed	Gradient in % (2)	Engine speed at 90 km/h	Governed speed in km/h (1)
1	R.A. RATIO 13 X 37	564AJ	2.850	965	-	-		
	R.A. RATIO 23 X 25	564BX	1.090	965	-	-		
	R.A. RATIO 11 X 37	564AA	3.360	965	-	-		
	R.A. RATIO 12 X 37	564AB	3.080	965	-	-		
	R.A. RATIO 21 X 25	564BW	1.190	965	-	-		
	R.A. RATIO 14 X 37	564AH	2.640	965	-	-		
	R.A. RATIO 24 X 25	564BY	1.040	965	-	-		
12	R.A. RATIO 13 X 37	564AJ	2.850				-	-
	R.A. RATIO 23 X	564BX	1.090				-	-

- Suspension remote control

**AdBlue**

60 L plastic AdBlue tank for D710 shape fuel tank.

**OPTIONS**

- 125 litre stainless steel AdBlue tank.  
"D" profile (710mm).

**STANDARD EQUIPMENT**

Lateral exhaust on left side.  
Equipment for carriage of petroleum-spirit / hazardous goods (RTMDR + ADR).  
Exhaust flame trap.  
Tool kit.  
Safety vest  
Warning triangle.

**OPTIONS**

- 55L tool box on chassis.
- 125L tool box on chassis.

**BODYWORK**

Side marker lights.  
Provision for bodybuilder interface.  
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**OPTIONS**

- Bodybuilder BBM electronic box interface bodybuilder expert functions via CAN bus).

25	R.A. RATIO 11 X 37	564AA	3.360				-	-
37	R.A. RATIO 12 X 37	564AB	3.080				-	-
25	R.A. RATIO 21 X 25	564BW	1.190				-	-
37	R.A. RATIO 14 X 37	564AH	2.640				-	-
25	R.A. RATIO 24 X 25	564BY	1.040				-	-

Dimensions, characteristics and data are for guidance only. We recommend that vehicles be measured and weighed before any bodybuilding work commences. The right is reserved to modify the above specifications without prior notice. No contract or binding undertaking is engaged by this document.

For further assistance please contact Product Applications at Renault Trucks UK Limited, Houghton Hall Business Park, Porz Avenue, Dunstable, LU5 5FT. Telephone +44 (0)1582 471122.