

KEL-BERG[®]
TRAILERS AND TRUCKS LIMITED

Ver.1 | Issued
06/25

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KEL-BERG
VAC TANKER

DAF XD 450 FAX 8x2 KEL-BERG
NON-HAZARDOUS VACUUM TANKER

MAKE / MODEL:

DAF XD 450 FAX 8x2 Rigid Chassis

DRIVE LINE:

Fitted with 10.8 litre, multi-torque 6 cylinder Euro 6 MX-11 diesel engine:

Outputs: 330 kW (449 hp) @ 1,600 rpm
Maximum Torque: 2,350 Nm @ 900 to 1,125 rpm

Fitted with automatic direct drive TraXon 12 speed 12TX2210 overdrive gearbox, ASR (anti-slip regulation), Eco performance, rear driven axle mechanical differential lock. Engine idle shutdown after 5 minutes idle time.

- Gear ratio 16.69 – 1.00
- Traction aid 15.0 t
- Axle ratio 2.38

Automated gearbox software optimised for liquid transport.



CAB EXTERNAL:

- New 2023 aerodynamic cab.
- Front view, main and wide angle mirrors.
- Midnight blue translucent external sun visor.
- Laminated double layer safety glass front windscreen.
- Double glazed window in cab rear wall.
- Passenger lower door window of tempered single layer safety glass.
- Cab entrance step with anti-slip tread. 3 steps.
- Central door locking system with light checker function. Includes 2 keys.
- Bi-reflector LED head lights with impact resistant Lexan lens.
- LED day time running lights integrated into headlight units.
- LED head and cornering lights.
- Maintenance free 4-point mechanical cab suspension with integrated shock absorbers.
- Air flow plate fitted under the vehicle improving fuel efficiency. Takes into account ground clearance.

COLOUR:

- | | |
|-------------------|---------------|
| • Cab | E1980WHITE |
| • Head lamp panel | Crystal White |
| • Chassis | Grey |
| • Bumper finished | Crystal White |
| • Grille strips | Black |



CAB INTERIOR:

Cab interior has hexagon decoration with light trim colour on roof and roof console. Panels and below dashboard are grey. Accents are facet black. The dashboard descends towards front windscreen to create more vision with plane finish. Dashboard has extractable table on top of centre console. Centre console has open storage compartment also. 2 x 12V/5A dashboard power supply and 3 USA-A connections.

Bunk has “Xtra Comfort” 150 mm thick pocket sprung mattress. There is a drawer for storage underneath the lower bunk with additional storage to left and right of the drawer, accessible with tilted bunk. Curtains along the windscreen and the side windows. There is an additional curtain between driving area and sleeping compartment.

Driver seat is air suspended, high backed, with armrests and black seat belts. Passenger seat is foldable. Pull down roller blind on driver side. Windows are electric. Interior lighting is LED with dimmable red night driving light and separate spot lights for driver and passenger. Equipped with cruise control. Fitted with leather steering wheel. Includes audible reverse warning system with override switch, and basic engine immobiliser.

Cab is climate control, regulating temperature, air distribution and air conditioning. Fitted with water-to-air 6kW cab and engine heater with residual head pump and timer.



Fitted with digital (smart) VDO DTCO tachograph with Global Navigation satellite System (GNSS) receiver and dedicated short-range communications (DSRC) unit. DAF Luxury Plus Infotainment System – additional 10.1 inch touch screen display with audio and infotainment functionality, including tracking navigation.

- An FM/DAB/DAB+ radio is integrated in the system as well as streaming functionalities via USB and Bluetooth.
- Luxury speaker system – two bass speakers, two tweeters and full range frequency speaker.
- Driver performance assistant (DPA) information is shown on 5” colour TFT display in instrument panel
- ECAS remote control to activate normal driving height, raise/lower the rear axle and to stop adjustment.

CHASSIS:

Wheelbase is 5,700 mm with 2,000 mm overhang. Chassis is 310 mm x 7 mm steel with full length reinforcement. Horizontal exhaust discharge at the side of DPF/SCR unit via low exhaust diffuser. Exhaust discharged to the right hand side.

Camera at the rear of the vehicle for rear view. Camera images will be shown on the additional display in the dashboard wing belonging to the DAF Infotainment System.

EAS unit behind the 2nd front axle at the right hand side of the chassis. Horizontal battery box and 45 L AdBlue tank below battery box at the left hand side. 340 L aluminium fuel tank at the right hand side.



- Front & rear underrun protection according to EU directive 2000/40/EEC.
- Rear lights LED
- Steel air tanks
- Spray suppression in the mudguards according to directive 91/226/EEC.

BRAKE SYSTEM:

Features ventilated disc brakes front and rear. Dual circuit air system with electronic control (EBS). Twin cylinder air compressor with heated dryer and economy mode. Fitted with MX engine brake – hydraulically operated compression brake assembly integrated in the valve rocker group. Works simultaneously with the exhaust brake.

Pneumatic park brake control. Spring brake cylinder on the 2nd axle of the rear tandem axle.

AXLES & SUSPENSION:

Front axle 163N, 100 mm vertical offset. Parabolic leaf suspension with shock absorbers and stabiliser - Max load 2x 8.0 ton. Trailing axle load 8.0 t. Axle load limiter 11.5 t.

Driven rear axle and non-driven steered trailing rear axle with electronically controlled suspension. Driven rear axle type SR1344 with single reduction and 4 air bellows.



Non-driven steered trailing axle with 2 air bellows. Max group load 20.0 tonnes. Parabolic front suspension, regular driving height conditions.

Automatic control to lift the leading and/or trailing rear axles when the axle load on the driven axle permits lifting. The system operates at a vehicle speed as of 4 km/h.

WHEELS & TYRES:

- Front axles tyre size 315/60R22.5 wheels 22.5 x 9.00
- Driven rear axles the same
- Tyres premium make
- Steel disc wheels in silver grey
- Wheel protection rings with open centre section in silver-grey RAL 9006
- On/off road application

POWER TAKE-OFF (PTO):

Double PTO type N../10bc mounted on the automated gearbox. Topside gear ratio 37/30 for direct pump drive. Bottom side gear ratio 37/20 with flange connection.

ELECTRICAL POWER SUPPLY:

Alternator 130 A, Batteries 2 X 175 aH

GVC & GCM:

- Chassis weight related technical GVM max 35,000 kg
- Driveline related max GCM 44,000 kg class 2

WARRANTY:

2 year warranty on chassis and 3rd year on driveline. This takes care of all warrantable repairs on the vehicle for two years and on the driveline for a third year together with associated breakdown coverage.

SERVICE & MAINTENANCE:

Two options are available at additional monthly cost.

1. Compliance package.
2. Full R&M package, please ask for full details or a monthly cost.

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TANK:

Material: Carbon Steel to specification EN 10025 S355J2

Warning: Customer aware that if both tanks are full, then the unit will exceed the Maximum GVW. Normal operation is that the clean water tank will be empty when waste tank is loaded.

Tank Ring Material: 75 x 5 mm Carbon steel Stiffening Rings

Internal Finish / Coating: Self Colour - Natural Finish

Shape / Thickness: Cylindrical Ø 1950 x 5 mm

Specific Gravity: Water 1.0 at 4 °C

Contents: Sewage and other non-hazardous sludge's

Nominal Capacity: **4000 Gallon – 200 Gallon Clean / 3800 Gallon Empty**

Body Flexi Mounting: Fixed body attached to chassis by galvanised modular flexible mountings – no tipping

Fall Over Length: Minimum 2 degrees slope

Mountings: Tank body is attached to the chassis with galvanised modular flexible mountings

Subframe: Full length Galvanised Modular Subframe

Baffles: 2-off anti-surge walk through type

Front End: Torispherical dished end Ø1950x6mm with a flange inspection

Rear Door: Torispherical dished end Ø1966x6mm with hydraulic operation

Door Clamps: Hydraulically operated door clamps with control on nearside

Tank Manhole: PED certificate DN500 4.4 mm thickness. 6 clamp man lid with access using ladder & platform.

PRV: Safety valve in front with pull tap

Gauges: Combined vacuum pressure calibrated in working pressure & vacuum

Sight Glass: 3" Sight glass on left side of tank. 2 piece. - Cleaning access in bottom of sight glass.

Operating Pressure: Pressure - 1 bar (15 PSI) Vacuum - 1 bar (28"hg)



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VALVES:

Outlet Valve:	4" lever operated ball valve
Valve Position:	Mounted in base of rear door/dish
Outlet Connection:	4" Bauer with blank cap
Inlet Valve:	4" lever operated ball valve
Valve Position:	Mounted in base of rear door/dish
Inlet Connection:	4" Bauer with blank cap
Internal Stack Pipe:	Fitted to Inlet Valve with splash plate welded to the tank
Overspill Valve:	Air operated valve linked to PTO
Vent Valve:	Air operated valve operated from control unit

JETTING SYSTEM:

Sight Glass:	2" diameter full depth acrylic sight glass in front compartment.
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Jetting Pump: **Speck NP25/50-150 High pressure pump**

Performance:	24 L/min at 120 bar max
Jetting Pump Supply:	200-gallon freshwater compartment
Pump Drive:	Hydraulic Drive
Hydraulic Hose Reel:	Hydraulically operated reel on nearside including free wheel facility with high pressure hose
Hose Reel Position:	Fitted on the Nearside at the Rear and facing the Rear
Jetting Hose:	40 m of 1/2 " diameter Jetting hose
Protection:	Low water warning device with automatic water-dumping circuit
Equipment:	Standard low volume jetting kit – push fit coupling
with	1 m hand lance



VACUUM SYSTEM:

- Exhauster:** **Jurop RV360, a rotary vane vacuum pump, features a built-in vacuum-pressure changeover valve, controls at rear, 360 cfm, deoiler**
- Drive:** Hydraulic Drive
- Cut-off:** Kel-Berg manufactured primary shut off and Jurop secondary overspill shut off valve with cut out and drain
- Protection:** Suction side equipped with strainer and vacuum check valve. Blasting side also equipped with a check valve.
- Control:** External ergonomic controls fitted at operator workstations. Air operated changeover for vacuum or pressure selection, on nearside, Emergency Stop at the electrical cabinet

HYDRAULICS:

- Oil Cooler:** **Denver Gardner Hydrapak Oil cooler w/ 11 L Integral Reservoir**
- System Type:** 2-line hydraulic system – 70/30 split
- Piping:** All piping is wrapped in spiral wrap

STORAGE:

- Hose Storage:** 4000 x 470 x 240 mm Hose tray with lockable lid nearside and offside
- Stainless Steel Locker:** Matt stainless steel 800 x 400 x 500 mm with external hinges
- Washout Box:** Stainless steel mesh washout box 520 x 530 x 520 mm at rear offside
- Cone Spike:** Cone spike to take 5 off 750 mm high cones (Motorway Use)



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LIGHTING:

Beacon Type: 2x HELLA 24V Beacons on rear gate
Worklight Type: 24V Kel-berg Worklight 2100lm
Worklight Position: 2 each side, and 2 on rear gate
Additional Worklights: 2x HELLA 24V Beacons on rear gate
Light Brackets: Galvanised rear light brackets

GENERAL:

PER/PED: The vessel are in accordance with The Pressure Equipment Directive 2024/68/EC & UK Pressure Equipment (Safety) Regulations 2016

Data Plate: Tank data plate (CE/UKCA Marked). The control is carried out on basis of the regulations for module B(K) in No. 2014/68/EU accredited by a third party

Type Approval: Whole Vehicle Type Approval in Progress

Labels / Handbook: Safety labels fitted to vehicle as required and operator handbook supplied

Documentation: Certificates and technical information supplied on delivery

Vehicle Tare Weight: 15,000 kg

Rear Bumper: VBG Rear underrun protection

Handwash: Stainless steel Teal handwash on offside

