



VJ
VAC TANKER

DAF XD 450 FAX 8x2 VJ ENGINEERING
NON-HAZARDOUS VACUUM TANKER

CHASSIS SPECIFICATION

Ver.2 | Issued
08/25

DAF XD 450 FAX 8x2 VJ 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) at 1,600 rpm
- Max Torque 2,350 Nm at 900 – 1,125 rpm

Fitted with automatic direct drive TraXon 12 speed 12TX2210 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.



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CAB EXTERNAL:

- New 2023 aerodynamic cab.
- Main mirror, wide angle mirror, and front view mirror
- Midnight blue translucent external sun visor.
- Laminated double layer safety glass front windscreen.
- 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 |



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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. Extra cab insulation.

Driver seat is air suspended, high backed, with armrests and black seat belts. Foldable cinema co-driver seat with table feature and fabric cover. 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.
- Side marker lights

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 ratio 11.5/7.1

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
- No tyre pressure monitoring system.

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

GVM & 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:

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|--------------------|--|
| Shape: | Cylindrical shaped tank with external stiffening 50 x 10 flat rings |
| Material: | Carbon steel to specification BS EN10025 S275 OR Stainless Steel Grade 304 |
| Contents: | Suitable for the transport of non-hazardous water / sludge |
| Specific gravity: | 1.0 |
| Nominal capacity: | ± 4,200 IG or maximum to suit vehicle GVW |
| Baffles: | 2 x anti-surge cut dish baffles |
| Wall Thickness: | ± 5 mm |
| Head Thickness: | ± 6 mm |
| Working Pressure: | -0.9 bar vacuum and 1 bar over pressure |
| Mountings: | Fixed mounting with rubber and springs, including full mild steel sub-frame |
| Fall over length: | Approx. 2 degrees slope rearwards |
| PRV: | Tank-top PRV |
| Front Dish: | Torispherical dish and flange |
| Rear Dish: | Hydraulically operated torispherical door |
| Door Clamps: | Hydraulically operated door clamps with controls on NS |
| Division: | 1 x fixed division with bolted man access Compartment split ratio – 4,000 gallons dirty / 200 gallons water |
| Manhole: | 1 x 500 mm diameter tank top hole with access ladder and local platform. |
| Waste Sight Glass: | 3" diameter acrylic sight tube (cranked design), 1 x isolation valve with rodding cap. |
| Water Sight Glass: | 2" diameter acrylic sight tube |



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VALVES:

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| Inlet Valve: | 4" lever operated PN10 Flanged ball valve with internal stack pipe & wear plate. |
| Inlet Connection: | 4" female Bauer with blank cap |
| Inlet Position: | In rear door |
| Outlet Valve: | 4" lever operated PN10 Flanged ball valve. |
| Outlet Connection: | 4" female Bauer with blank cap |
| Outlet Position: | In rear door |
| Breaker Valves: | 1" breaker valves fitted to both inlet & outlet connections |
| Travel Valve: | 3" Air operated butterfly valve linked to PTO. |
| Vent Valve: | 3" Air operated butterfly valve. |

VACUUM SYSTEM:

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| Pump: | Air cooled vacuum pump Jurop RV360 |
| Flow: | Free air capacity ± 360 cfm |
| Pipework: | 3" NB carbon steel pipe work & rubber hose. |
| Primary Cut Out: | Primary cut out with float ball located in the sludge compartment |
| Secondary Cut Out: | Overspill tank with shut off float ball (Jurop 18440 007 00). |
| Suction Strainer: | Suction line from overspill tank to vacuum pump fitted with grit strainer |
| Changeover Valve: | Pneumatic operation combined vacuum / pressure changeover valve |
| Line Vent Valve: | 1.5" manual lever line snifter valve. |
| Gauges: | Vacuum / pressure gauge mounted nearside |
| Line Relief Valves: | 1 x 1.5" line pressure relief valve 1 x 1.5" line vacuum relief valve. |
| Exhaust: | System de-oiler with combined exhaust silencer (Jurop 15470 D2C B0). |



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JETTING SYSTEM:

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|-------------------|--|
| Water Intake: | 2.5" layflat water fill hose c/w hydrant fitting. Storage basket mounted on NS |
| Jetting Pump: | Speck NP25/50-150 high pressure pump |
| Max Performance: | ± 10 gpm at 2,000 psi |
| Hose Reel: | Hydraulically operated reel mounted rear NS with 30 m x 0.5" HP hose |
| System Control: | Bypass unloader valve |
| Protection: | Low-water warning light & auto-dump circuit |
| Water Filter: | Suction side grit strainer |
| Frost Protection: | Air purge system fitted |
| Safety: | Emergency engine stop button on main rear control panel |
| Controls: | Pump controls on the main rear control panel |
| Other Equipment: | 1 x hand lance with fan nozzle |

STORAGE:

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| Hose Storage: | 4,000 mm length hose tray both sides (solid base, open top with straps). Tank protector strips along the rear side hose trays. |
| Toolbox: | 1 x stainless steel toolbox minimum 800 mm width. |
| Other Storage: | 1 x stainless steel coupling basket mounted at rear with lockable lid, 1 x cone holder to accept Qty 6 x 450mm cones. |



LIGHTING:

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| Marker Lamps: | LED end outline marker lamps |
| Working Lamps: | 2 x LED work lamps mounted on rear dish, 2 x LED work lamps mounted nearside, 2 x LED work lamps mounted offside. |
| Beacons: | 2 x LED amber beacons mounted on rear dish |

ANCILLIARY ITEMS:

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|-------------------|--|
| Side Guards: | Type approved aluminium side guards fitted |
| Rear Under-Run: | Type approved RUPS fitted |
| Mud Wings: | Plastic mud wings fitted to all rear axles |
| Rear Splash Tray: | Stainless steel debris chute profiled around rear door & clamps. |
| Hand Wash: | 1 x Teal 24 V stainless steel hand wash unit |

PAINTING:

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|-------------------|---|
| Tank Internal: | No treatment – self colour |
| Tank External: | Shotblast – SA 2.5 Primer – 2 pack epoxy Finish – 2 pack high build acrylic in single solid colour – WHITE to match cab Paint chassis mounted items 2 pack acrylic to match OEM chassis colour |
| Conspic Markings: | Conspicuity markings in accordance to UN ECE Reg 48 SI 2009 No 3220 |

GENERAL:

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|---------------------|--|
| PESR: | Approval to Pressure Equipment Safety Regulations 2016 – UKCA marked |
| Quality Assurance: | Independently monitored by notified body for conformity assessment. Hydrostatic test to 1.5 bar (23 psi) / full vacuum |
| Operating Pressure: | -0.9 bar vacuum and 1 bar pressure |
| Data Plate: | Tank data plate fitted |

WARRANTY:

One year warranty on the body – conditions apply, please see T&Cs

Please note that, in some operational circumstances, it is possible that the GVW or individual axle loading of this vehicle could be exceeded.