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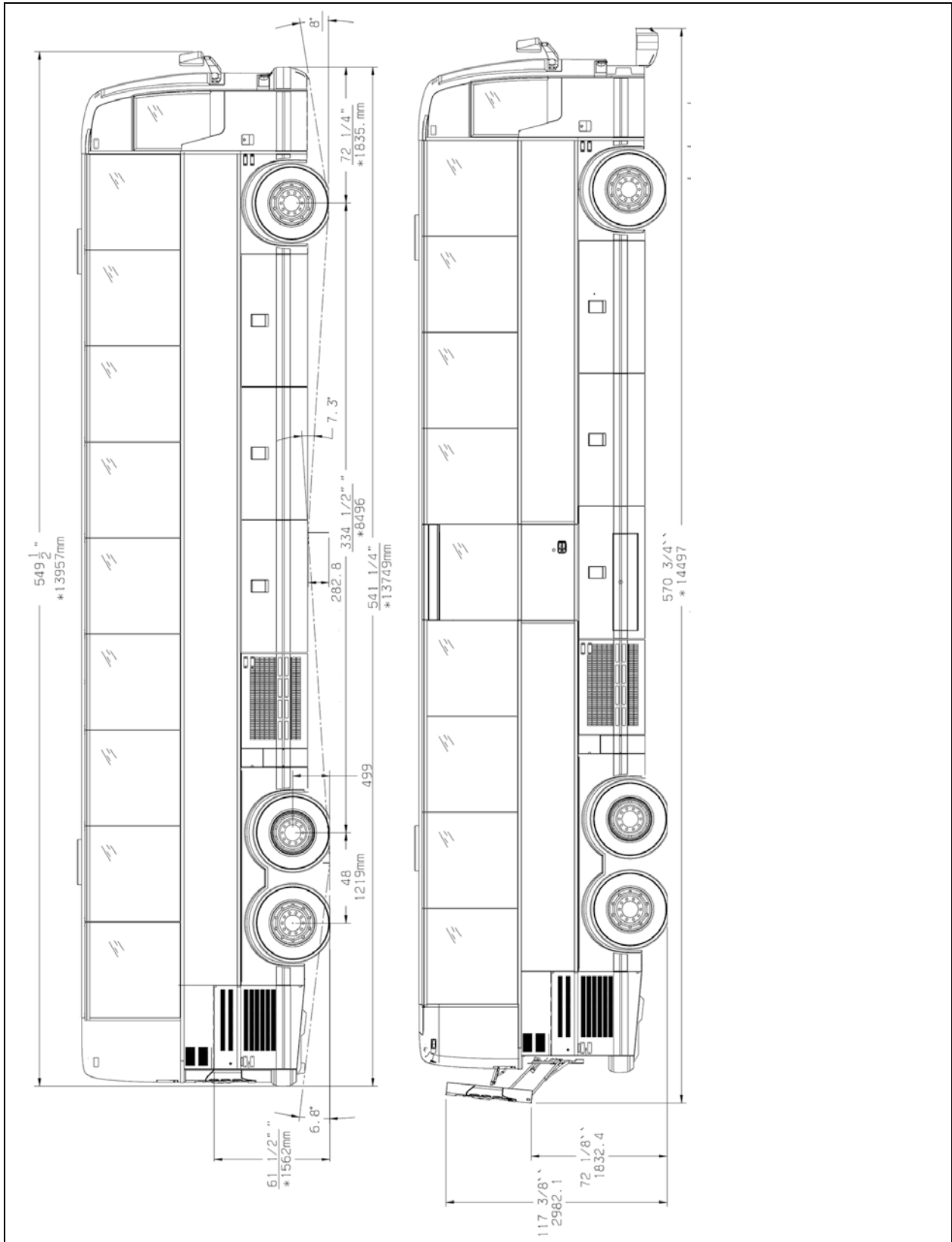
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9-2 Technical Information

VEHICLE IDENTIFICATION NUMBER (VIN) 13
COACH FINAL RECORD 13



X3-45 OVERALL DIMENSIONS (SIDE ELEVATION)

| DIMENSIONS AND WEIGHTS | X3-45 |
|--|--|
| Overall length (including bumpers) | 45' (13,7 m) |
| Overall width | 102" (2,59 m) |
| Overall height (hatch open) | 138" (3,5 m) |
| Wheelbase (center of front axle to center of drive axle) | 340" (8,64 m) |
| Floor height from ground | 48 1/2" (1,23 m) |
| Ground clearance | 11" (280 mm) |
| Step height from ground | 15" (380 mm) |
| Step height (other steps) | 7" (178 mm) |
| Headroom | 80" (2,03 m) |
| Entrance door opening width | 30" (762 mm) |
| Front overhang | 70 3/4" (1,80 m) |
| Rear overhang | 107 1/2" (2,73 m) |
| Front track | 85.9" (2,18 m) |
| Drive track | 76.7" (1,95 m) |
| Rear track (Tag axle) | 83.6" (2,12 m) |
| Turning circle radius (I-Beam Axle) | 47'-3" (14.4 m) |
| Turning circle radius (independent suspension) | 43'-9" (13.3 m) |
| Curb weight | 36,000 lb (16 327 kg) |
| Gross Vehicle Weight Rating (G.V.W.R.) | 49,600 lb (22 498 kg) |
| Front axle Gross Axle Weight Rating (G.A.W.R.) | 16,500 lb (7 500 kg) |
| Drive axle (G.A.W.R.) | 20,500 lb (9 299 kg) Meritor Axle 22,500 lb (10 206 kg) ZF A-132 Axle |
| Tag axle (G.A.W.R.) | 12,600 lb (5 727 kg) |


The Gross Vehicle Weight Rating (G.V.W.R.) and the Gross Axle Weight Rating (G.A.W.R.) for front, drive and tag axles are listed on a certification plate located on the L.H. control panel in driver's section.

| CAPACITIES | X3-45 |
|---|-----------------------|
| Volvo D13 Engine oil (Total with filters) | 41 U.S. qrts (39 l) |
| Fuel tank (legal capacity equal to 95% of volume) | 203 U.S. gal. (768 l) |

| CAPACITIES | X3-45 |
|--|---|
| Cooling system | 18.7 U.S. gal. (71 l) |
| Allison Automatic Transmission (does not include external circuit) | 6 U.S. gallons (23 l) 6.9 U.S. gallons (26 l) with retarder |
| I-Shift Transmission | 16 U.S. qts (15 l) |
| Differential oil | 20 U.S. qts (18,7 l) Meritor Axle 19 U.S. qts (18 l) ZF A-132 Axle |
| Power steering reservoir | 4.0 U.S. qts (3,8 l) |
| A/C compressor oil | 2.6 U.S. qts (2,5 l) |
| Windshield washer reservoir | 5.3 U.S. gal. (20 l) |
| Refrigerant | 24.1 lb (11 kg) |
| Toilet septic tank | 23.8 US gal. (90 liters) |

FUEL TYPE

Diesel engines for 2007 and later model year vehicles are designed to operate only with **Ultra Low Sulfur Diesel** (ULSD) fuel, which can contain no more than 15 ppm sulfur.

| | |
|---|----------------|
|  | CAUTION |
| <p>ULSD fuel is necessary to avoid fouling the engine's Exhaust Aftertreatment System. Use of fuel other than ULSD will reduce the efficiency and durability of the engine.</p> | |

BIODIESEL FUELS

Biodiesel up to a maximum of 20% blend (B20) may be used and will not affect the manufacturers mechanical warranty as to engine and emissions system related components, provided the biofuel used in the blend conforms to ASTM D6751, B1 to B5 blends conform to ASTM D975, and B6 to B20 blends conform to ASTM D7467. Also, any engine performance problem related to the use of biodiesel fuel would not be recognized nor considered as Volvo or Prevost's responsibility.

However, Volvo engines are certified to comply with U.S. EPA and California emissions standards based upon the use of *test fuels* with specifications established by these regulatory agencies.

9-6 Technical Information

Alternative fuels, including biodiesel, that are not substantially similar to the required *test fuels* may adversely affect engine emissions compliance. As a result, Volvo does not warrant the engine will conform to applicable Federal or California emissions limits when operated on biodiesel or other alternative fuels that are not substantially similar to specified test fuels used for certification.

Additional maintenance is required and is covered in the maintenance manual "Fuel system" section.

WHEELS AND TIRES

Accuride steel wheels9" X 22½"
 Alcoa aluminum forged wheels9" X 22½"
 Except inner drive axle (steel).....8¼" X 22½"
 Alcoa aluminum forged wheels
 (for super single tire)14" X 22½"
 Tires 315/80 R22.5 load range "L"
 Tires 365/70 R22.5 load range "L"
 Tires (super single) 455/55 R22.5 load range "L"

RECOMMENDED TIRE INFLATION PRESSURE AT MAXIMUM COLD LOAD

The recommended tire inflation pressures are given in the applicable documents supplied with the vehicle. In addition, minimum cold tire inflation pressures are listed on the Department of Transport (DOT) certification plate, affixed on the left wall near the driver's seat.

Vehicle equipped with TPMS: The TPMS target pressures are factory set to equal the prevailing tire pressure at delivery time. When tire pressures are increased to account for higher vehicle weight, the TPMS set point need to be increased accordingly.



CAUTION

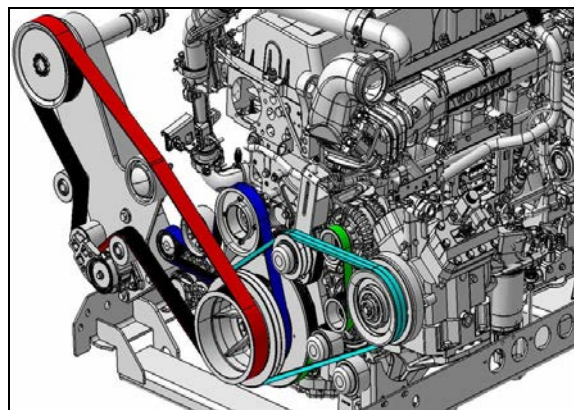
These tire pressures are established in accordance with the maximum allowable load on each axle. A lower pressure is recommended if the axle load is less than the above specifications. Weigh vehicle fully loaded and pressurize according to tire manufacturer's recommendations. For non standard tire and wheel specifications, see Prevost tire pressure tabulation in "Coach Final Record".



WARNING

Special tire selection may lower maximum allowable speed limit, even below posted speed limit. For maximum safety, check with tire manufacturer.

BELTS



| Use | Model | Qty |
|---------------------------------------|----------------------------|-----|
| Cooling fan drive belt | Multi V-14 Rib 14PK2665 | 1 |
| A/C system Bitzer 4NFCY compressor | V Belt BX71 | 2 |
| Alternator (twin Bosch) | Multi-V-8 Rib 8PK1575 | 1 |
| Alternator (emergency) | Multi-V-8 Rib 8PK1512 | 1 |
| Coolant pump | Multi-V-10 Rib 10PK1512 | 1 |

NOTE

Belts specifications may vary. For proper belt selection, always consult your vehicle Coach Final Record.

ENGINE

VOLVO D13

Type: 4 cycles / inline six cylinders
 Displacement: 12.8 liters, SOHC, 4 valves per cylinder
 Power 435 HP
 Torque..... 1700 lbf·ft @ 1100 rpm
 Recommended cruise speed range 1300-1500rpm
 Full dress, dry weight 2519 lb

ALLISON TRANSMISSION

Allison B500 (B500R with the optional output retarder) electronically controlled six speed automatic transmission.

Gear Ratios

| | |
|---|-------|
| 1 st | 3.510 |
| 2 nd | 1.906 |
| 3 rd | 1.429 |
| 4 th | 1.000 |
| 5 th | 0.737 |
| 6 th | 0.639 |
| Reverse | 4.801 |
| Converter | 1.9 |
| Differential ratio | 3.91 |
| Differential ratio (optional) | 3.58 |
| Differential ratio (ZF A-132 axle)..... | 3.54 |

VOLVO I-SHIFT TRANSMISSION

Technologically advanced twelve speed automated mechanical transmission

Gear Ratios

| | |
|-------------------------------|----------------------|
| 1 st | 14.94 |
| 2 nd | 11.73 |
| 3 rd | 9.04 |
| 4 th | 7.09 |
| 5 th | 5.54 |
| 6 th | 4.35 |
| 7 th | 3.44 |
| 8 th | 2.70 |
| 9 th | 2.08 |
| 10 th | 1.63 |
| 11 th | 1.27 |
| 12 th | 1.00 |
| Reverse 1 st | 17.48 |
| Reverse 2 nd | 13.73 |
| Differential ratio | 2.50 |
| Maximum input torque..... | 1850 Lb-Ft (2500 Nm) |

PROPELLER SHAFT

Hayes-Dana SPL250 type tubular shafts, provided with heavy-duty universal joints.

BRAKES

The features of the braking system include a dual system where the front and rear circuits are completely independent from each other. The brakes are air operated disc type brakes with automatic slack adjusters on front, drive and tag

axles. The emergency/parking brakes are located on the drive and tag axles only.

BRAKE CHAMBER EFFECTIVE AREA

| | |
|------------------|---|
| Front axle | 24 in ² |
| Drive axle | 24/24 in ² (service / emergency) |
| Tag axle | 14/16 in ² (service / emergency) |

AIR SYSTEM

Compressed air is provided by a twin cylinder, 31.8 cfm Wabco, gear-driven, water-cooled and engine oil lubricated air compressor.

ANTILOCK BRAKING SYSTEM (ABS)

The antilock braking system has one Electronic Control Unit (ECU) controlling a four channel system. A wheel slip sensor is mounted at each front axle and drive axle wheel. The Tag axle wheels are slave to the drive axle wheels.

The Electronic Control Module (ECM) is maintenance free. Its operating voltage is 24 ± 6 volts DC. The thermal operating range for the ECM is from -40 to 167°F (-40 to 75°C).

The solenoid control valves are maintenance free. Their operating voltage is 24 (+4.8, -2.4) volts DC. The rated current draw is 1.65 amps. The thermal operating range of the solenoid control valves is from -40 to 176°F (-40 to 80°C).

TROUBLESHOOTING AND TESTING

For troubleshooting and testing of the vehicle's anti-lock braking system, refer to Meritor WABCO Maintenance Manual: "Anti-Lock Brake Systems For Trucks, Tractors and Buses" or use dashboard Driver Information Display (DID).

AUTOMATIC TRACTION CONTROL (ATC) – ELECTRONIC STABILITY PROGRAM (ESP)

In addition to the ABS function, vehicle may be equipped with an advanced model of Bendix EC-60 controller to provide an **Automatic Traction Control (ATC)** feature. Bendix ATC can improve vehicle traction during acceleration, and lateral stability while accelerating through curves. ATC utilizes **Engine Torque Limiting (ETL)** where the ECU communicates with the engine's controller and/or **Differential Braking (DB)** where individual wheel brake applications are used to improve vehicle traction.

9-8 Technical Information

The EC-60 advanced model controller also provides ABS-based stability features referred to as **ESP® Electronic Stability Program**.

Refer to Maintenance Manual, Section 12: Brake and Air System for more information on this system.



CAUTION

Even with ESP-equipped vehicles, the driver remains responsible for ensuring vehicle stability during operation.



DANGER

ESP may reduce the vehicle speed automatically.

ESP can make the vehicle **decelerate automatically**. ESP can slow the vehicle with or **without the operator applying the brake**, and **even when the throttle is being applied**.

STEERING

- ZF 8098 integral hydraulic assisted steering gear;
- Variable assistance in function of speed is optional.
- Volvo hydraulic pump gear driven from engine drive.
- Hydraulic reservoir and dipstick accessible from engine compartment.
- System pressure: 2175 psi (150 bars).
- Steering wheel diameter 20". Tilt steering wheel and telescopic steering column; pneumatically locked with foot operated switch for adjustment.
- Number of turns: 5¾.
- Outside turning radius: See Dimensions and Weight.

ELECTRICAL SYSTEM

- 24-volt, negative ground;
- 12-volt exterior lighting;
- Two 28 volts, 150 amp, self-regulated, belt-driven, air-cooled HD 10 Bosch alternators;

- Four 12 volt, group 31 format maintenance-free batteries connected in series/parallel. Cold cranking capacity is 1900 amps with a reserve capacity of 195 minutes;
- 100 amp battery equalizer.

SUSPENSION

Goodyear rolling lobe type air springs (bellows) are used throughout.

I-BEAM AXLE FRONT SUSPENSION (OPTION)

- 2 Bellows (12"); for a G.A.W.R. of 16,500 lb;
- 2 Shock absorbers;
- 4 Radius rods;
- 1 Transverse radius rod;
- 1 Height control valve.
- 1 sway bar (1¾" diameter).

INDEPENDENT FRONT SUSPENSION

- 2 Bellows (12") for a G.A.W.R. of 16,500 lb;
- 2 Shock absorbers;
- 2 Upper A-arms;
- 2 Lower A-arms;
- 2 Torque rods;
- 2 Steering Levers;
- 1 Height control valve;
- 1 sway bar (1¾" diameter).

DRIVE AXLE (ALL)

- 4 Bellows (11");
- 4 Shock absorbers;
- 3 Radius rods;
- 1 Panhard rod;
- 2 Height control valves.

TAG AXLE

- 2 Bellows (11");
- 2 Shock absorbers;
- 3 Radius rods;
- 1 Panhard rod.

ALIGNMENT SPECIFICATIONS

Use static wheel alignment systems which work with angle measurements only, such as Josam or Hunter systems. Static alignment specifications are listed in the following tables:

| I-BEAM AXLE FRONT AXLE | | | |
|------------------------|---------------|---------------|---------------|
| | Minimum value | Nominal value | Maximum value |
| Right camber | -0.25° | 0.125° | 0.375° |
| Left camber | -0.25° | 0.125° | 0.375° |
| Right caster | 2.0° | 2.75° | 3.5° |
| Left caster | 2.0° | 2.75° | 3.5° |
| Total toe | 0.04° | 0.06° | 0.08° |

| INDEPENDENT FRONT SUSPENSION | | | |
|------------------------------|---------------|---------------|---------------|
| | Minimum value | Nominal value | Maximum value |
| Right camber | 0.0° | 0.150° | 0.30° |
| Left camber | 0.0° | 0.150° | 0.30° |
| Right caster | 2.35° | 2.6° | 2.85° |
| Left caster | 2.35° | 2.6° | 2.85° |
| Total toe | 0.04° | 0.06° | 0.08° |

| DRIVE AXLE MERITOR | | | |
|--------------------|-----------------|---------------|------------------|
| | Minimum value | Nominal value | Maximum value |
| Thrust angle | ±0.11° | | |
| Total toe | 0.18° toe-in | 0° | 0.18° toe-out |

| DRIVE AXLE ZF A-132 | | | |
|---------------------|-----------------|---------------|------------------|
| | Minimum value | Nominal value | Maximum value |
| Thrust angle | ±0.11° | | |
| Total toe | 0.15° toe-in | 0° | 0.15° toe-out |

| TAG AXLE | | | |
|---------------|-----------------|---------------|------------------|
| | Minimum value | Nominal value | Maximum value |
| Thrust angle* | -0.02° | 0 | 0.02° |
| Total toe | 0.08° toe-in | 0° | 0.02° toe-out |

(* Use the drive axle as reference)

COOLING SYSTEM

- Extra capacity, copper fin radiator and aluminum charge air cooler arranged one behind the other, Valeo made.
- 3 speed fan clutch engine ECU controlled.
- Rubber insulated from the body.
- Expansion tank above radiator and remote mounted.
- System pressure 14 psi.
- 185° F thermostat.
- System capacity 24 us gal.
- Coolant filter.
- Radiator fan: 38 inches fan belt and drive shaft driven.

FUEL SYSTEM

Polyethylene 208 US gallons/787 liters fuel tank centrally located.

Equipped with:

- Anti-spill device.
- Safety filler cap on right side of coach.
- Pressure relief valve.
- Electric fuel gauge.
- Low level signal at 26 US gallons/98.4 liters.
- Primary filter 25 microns (standard).
- Primary fuel filter with electrical water indicator (Volvo D13).
- Fuel pro 382 filter available as an option as a primary filter.
- Secondary filter 3 to 5 microns.
- Shut-off valve on fuel supply line.
- Provided with filling access on the right side of the coach.

EXHAUST SYSTEM

One all stainless steel exhaust aftertreatment system including:

- Catalytic converter to reduce NOx.
- FleetGuard assembly made of a DOC (Diesel Oxidation Catalyst and a DPF (Diesel Particulate Filter). Noise, vibration and heat insulated. This assembly is mounted to the bus structure and is accessible through an exterior access door.
- Tail pipe diffuser and rain deviation device.
- Exhaust pipe with Insulation and a flexible section.
- Exhaust to rear left hand top of rear cap.
- Diesel exhaust fluid (DEF) tank (60 liters) and injection system.

HEATING AND AIR CONDITIONING

Two air conditioning systems using the same compressor are available: the large capacity (central) A/C and an optional overhead compartment A/C. The large capacity A/C provides adequate capacity of conditioned and filtered air for all climatic conditions. Fresh air is drawn into the system from the left (driver's) side of the vehicle. Return air is taken from the middle of the vehicle. The driver's heater and defogger are controlled separately from the central unit. An air mixture selector enables air to be drawn into the system from outside the vehicle or recirculated.

The optional overhead compartment A/C is used to cool air delivered from registers in the passenger overhead compartments.

| CENTRAL A/C | |
|--------------------------------------|--------------------------------------|
| Air conditioning capacity | 9 tons |
| Refrigerant type | 134A |
| Heating capacity | 152 000 Btu/h |
| Air flow, main A/C | 2 600 cfm (73,6 m ³ /min) |
| Air flow, overhead compartment, opt. | 450 cfm (12,7 m ³ /min) |

| COMPRESSOR (for central A/C) | |
|-------------------------------------|----------------------|
| Number of cylinders | 4 |
| Operating speed | 500 to 3500 rpm |
| Oil capacity | 2.6 U.S. qts (2,5 l) |
| Approved oil | Bitzer BSE55 (POE) |

NOTE
The above oils are suitable for use with reciprocating compressors using refrigerant R-134a and with evaporator temperatures above -40°F (-40°C).

OIL SPECIFICATIONS

ENGINE

For the Volvo D13H engine, we recommend using SAE 10W-30 oil meeting *EO-O Premium Plus* or *Volvo VDS-4*.

Volvo VDS-4 oils exceed API service category CJ-4 oils.

ALLISON TRANSMISSION

Allison Transmission recommends the following fluids:

- Castrol TranSynd™ or TES-295 specification equivalent fluid;
- TES-389 specification equivalent fluid.

I-SHIFT TRANSMISSION

Only use VOLVO-approved synthetic transmission oil in the I-Shift transmission. Refer to section 24 of the Maintenance Manual for more information about oils approved by Volvo;

DIFFERENTIAL

Multigrade gear oil meeting MIL-PRF-2105E: 85W-140 is recommended for use in the Meritor drive axle. This lubricant performs well over a broad temperature range, providing good gear and bearing protection in a variety of climates. If temperature drops below 10°F (-12°C), 80W-90 should be used, and below -15°F (-26°C), 75W-90 should be used. In extreme conditions or for better performance, full synthetic gear oil should be used. For vehicles equipped with the ZF A-132 drive axle, use Chevron Multigear oil

80W-90 (ZF lubricant class 12M) or refer to ZF List of lubricants TE-ML 12 for other approved lubricants.

FAN RIGHT ANGLE GEARBOX

Use only synthetic gear lubricant SAE 75W-90.

POWER STEERING RESERVOIR

Use Automatic Transmission Fluid (ATF) Dexron-IIe or Dexron-III for this system.

PRE-HEATING SYSTEM

Depending on options chosen, a coolant heater may be installed on the coolant circuit. The heater can be used as a pre-heater or as an auxiliary heat source.

Only the Spheros 104,000 Btu preheater is available. The heater is controlled by a programmable timer. See Other Features chapter for information on how to use the timer.

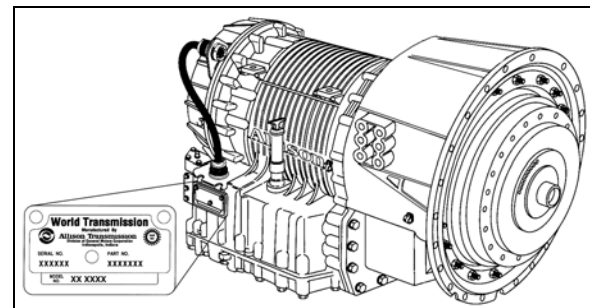
| SPHEROS | | |
|---|--------------------------|----------------|
| Model | Thermo 300 | |
| Heating output | 104,000 Btu/hr (30 kW) | |
| Fuel type | Same as engine | |
| Fuel consumption | 4.8 US qts/hr (4.5 l/hr) | |
| Rated voltage | 24 V DC | |
| Operating voltage | 20-28 V DC | |
| Electric power consumption without water pump | 110 watts | |
| Dimensions | (L) | 24.01 (610 mm) |
| Inch (mm) | (W) | 9.69 (246 mm) |
| | (H) | 8.66 (220 mm) |
| Weight | lb (kg) | 41.88 (19) |

PLATES AND CERTIFICATION

The main components of the vehicle such as engine, transmission, axles and chassis are identified by different serial numbers. It may be necessary to locate these numbers for warranty purposes.

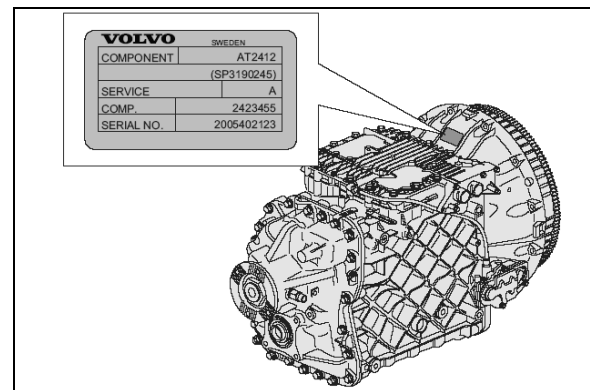
The engine data plate is located on the rocker cover. The engine serial and model number and a list of the optional engine equipment are written on this plate. Refer to this information when ordering replacement parts. Also the

engine data plate certifies that the engine conforms to federal and any state exhaust emissions regulations.



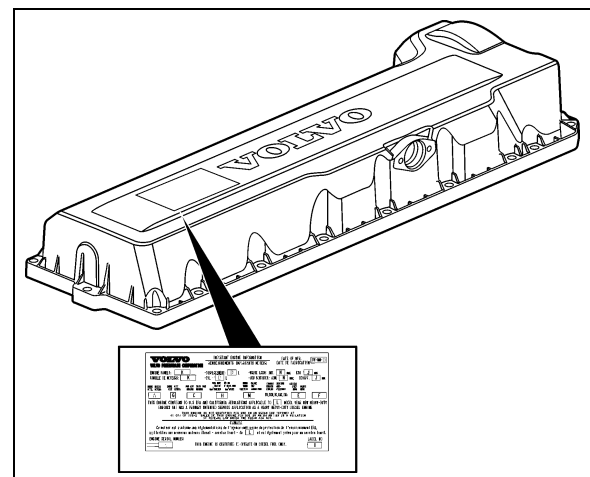
ALLISON TRANSMISSION

07076



I-SHIFT TRANSMISSION

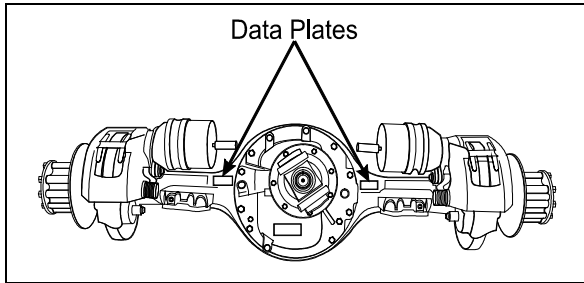
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VOLVO D13 ENGINE DATA PLATE

00052

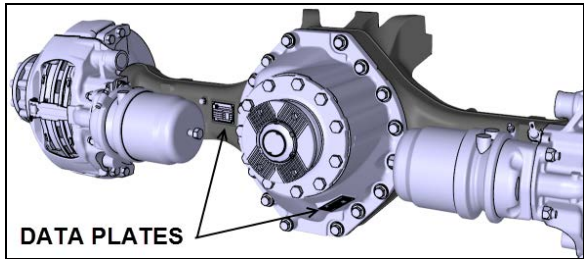
9-12 Technical Information



MERITOR DRIVE AXLE

00007

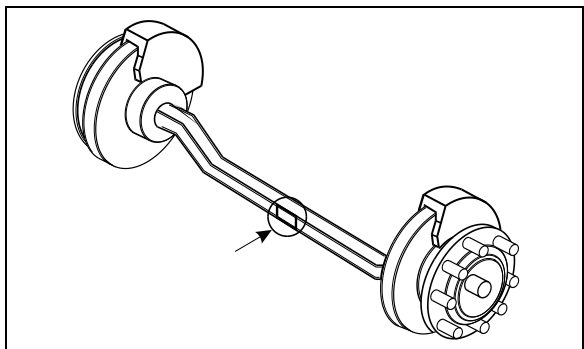
- All factory-installed interior materials meet FMVSS 302 for fire resistance.
- Certified according to Provincial, State and Federal Safety standards (Canadian and US) BMCSS, FMVSS and CMVSS.
- Other applicable certification labels are affixed to the component.



ZF A-132 DRIVE AXLE

DOT CERTIFICATION PLATE

This certifies that vehicles manufactured by PrevoSt Car Inc. comply with all Federal Motor Vehicle Safety Standards at the time of manufacture. Information such as date of manufacture, model year, gross vehicle weight rating, tire types and inflation pressure is also etched on this plate. The DOT Certification plate is affixed to L.H. control panel.



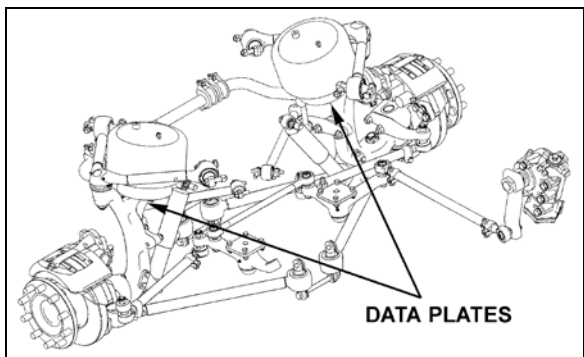
I-BEAM FRONT AXLE

00008

| | | | | | |
|--|------------------------------|-----------------|------------------|--|---|
| | PREVOST® | | | | |
| | MANUFACTURED BY : PREVOST | | STE-CLAIRE, QUE. | | |
| P.N.B.V. : | | DATE OF MFG. | | | |
| DATE DE FAB. : | | | | | |
| G. V. W. R. : 24040 KG. (53000 LBS). | | | | | |
| AXLES/ ESSELK | G. A. W. R. / P. N. B. E. | TIRES/ PNEUS | RIMS/ JANTES | COLD INFLATION PRESS. / FROID OU DOUBLE | SINGLE OR DUAL SIMPLE OU DOUBLE |
| | KG (LBS) | | | KPA (PSI) | |
| FRONT: AVANT : | 7484 (16500) | 315/80R22.5 (J) | 22.5X9 | 827 (120) | S |
| INT. DIFF. : | 10206 (22500) | 315/80R22.5 (J) | 22.5X9 | 621 (90) | D |
| REAR: TANDEM : | 6350 (14000) | 315/80R22.5 (J) | 22.5X9 | 689 (100) | S |
| THIS VEHICLE CONFORMS TO ALL APPLICABLE U. S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. | | | | | |
| VEHICLE IDENTIFICATION NO. [] | | | | | |
| NO. IDENTIFICATION VEHICULE [] | | | | | |
| | | | | TYPE: BUS B/A | #405405 |

DOT CERTIFICATION PLATE

00016



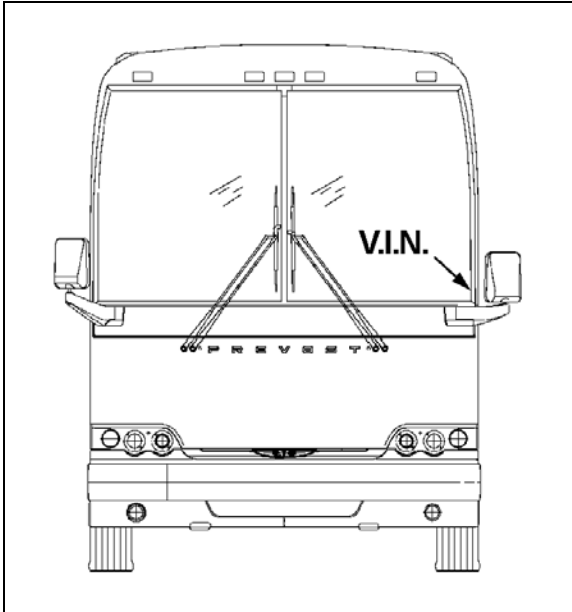
INDEPENDENT FRONT SUSPENSION

16136

SAFETY CERTIFICATION

- Vehicle components meet specifications and standards as follows:
- Material and parts conform to ASTM and/or SAE standards in effect at the time of manufacture.

VEHICLE IDENTIFICATION NUMBER (VIN)



VEHICLE IDENTIFICATION NUMBER

00044

The Vehicle Identification Number is stamped on a plate located on the windshield frame pillar (driver's side). The VIN is visible from the outside of the vehicle. Make sure the correct vehicle identification number is given when ordering replacement parts. Using the VIN when ordering parts will facilitate processing.

NOTE

Record the VIN in the vehicle documentation and keep with company records. The VIN will normally be used for vehicle registration, service reference needs and for obtaining vehicle insurance coverage.

COACH FINAL RECORD

The Coach Final Record is a record of all data pertaining to the assembly of the vehicle. This record is shipped to the new customer via a courier company. Retain this record in the company records office for reference and safe-keeping.