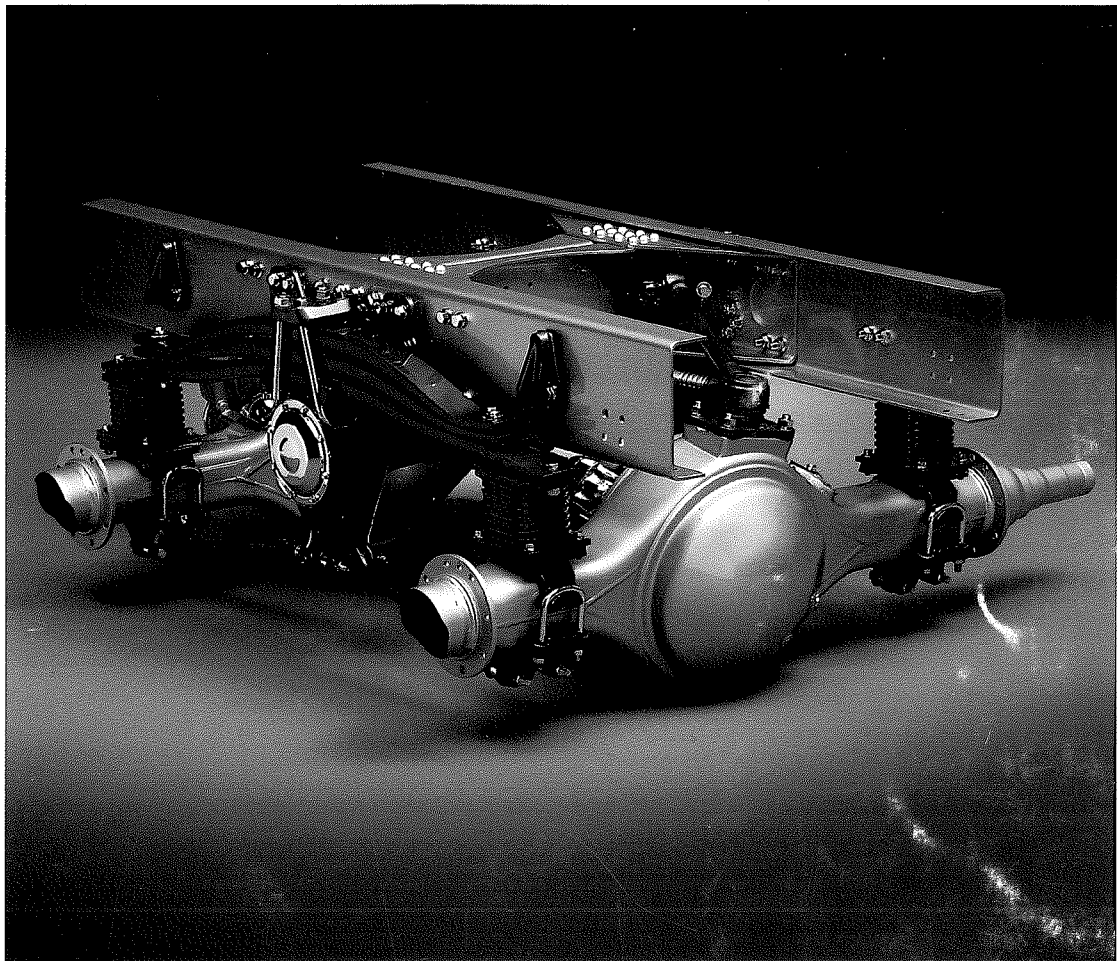


VOLVO T-RIDE AXLES AND SUSPENSION

VBT 4011E, VBT 4012R, VBT 4018, VBT 4618



VOLVO

**VOLVO GIVES YOU THE ADVANTAGES YOU WANT...
THROUGH SUPERIOR DESIGN FEATURES.**

| FEATURE | BENEFIT |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Differential locks and suspension | Standard interwheel and interaxle differential locks and a flexible suspension provide maximum traction in slippery conditions, eliminate spin-out failures, and offer higher productivity, reducing the risk of getting stuck. |
| Lightweight design | Increased payload. |
| T-Ride design | Offers high articulation and good roll stability because of springs mounted outside the frame rails. |
| V-torque rods and rubber tower spring attachment | Superior bushing life. |
| Parabolic spring design | Superior ride. |
| Pilot bearing on pinion, support bolt on ring gear | Offer high impact strength and long bearing life. |
| Two grease fittings | Low maintenance. |
| Reverse brake chambers on rear axle available | Safer location ensures that parts will not collide with asphalt spreaders, etc. |

SPECIFICATIONS

Ride suspension with parabolic leaf spring and rubber towers. Four wheel differential lock. Reversed brake chambers on rear axle are available.

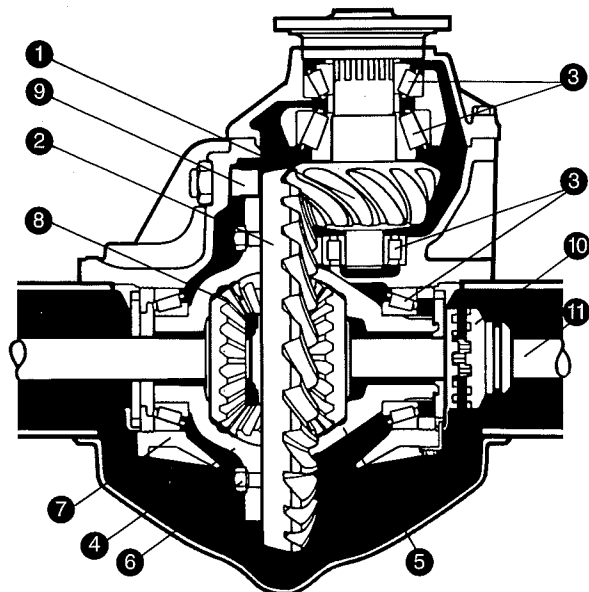
| Model | Eaton VBT 4011E | Rockwell VBT 4012R | Volvo VBT 4018 | Volvo VBT 4618 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Configuration | Single reduction hypoid with differential lock | | | |
| Axle capacity | 40,000 lbs. | 40,000 lbs. | 46,000 lbs. | 46,000 lbs. |
| Suspension capacity | 40,000 lbs. | 40,000 lbs. | 46,000 lbs. | 46,000 lbs. |
| GCW (highway) | 110,000 lbs. | 125,000 lbs. | 180,000 lbs. | 180,000 lbs. |
| Ring gear diameter | 14.8"-15.6"* | 15.0" | 16.5" | 16.5" |
| Weight** | 2,673 lbs. | 2,657 lbs. | 2,810 lbs. | 2,854 lbs. |
| Ratios | 2.64, 2.85, 3.08, 3.25, 3.36, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.57, 6.17, 6.50 | 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.88, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17 | 3.07, 3.36, 3.56, 3.78, 4.30, 4.87, 5.43, 6.14 | 3.07, 3.36, 3.56, 3.78, 4.30, 4.87, 5.43, 6.14 |
| Spring type | Two leaf parabolic | Two leaf parabolic | Two leaf parabolic | Three leaf parabolic |
| Lube capacity | 15.5 qts. front, 14 qts. rear | 13 qts. front, 16 qts. rear | 21 qts. front, 9.5 qts. rear | 21 qts. front, 9.5 qts. rear |
| Oil quality | API-GL 5, MIL-L-2105C/D | API-GL 5, MIL-L-2105D | API-GL 5, MIL-L-2105C/D | API-GL 5, MIL-L-2105C/D |
| Oil change interval | Initially 3-5,000 miles; thereafter 1 year/100,000 miles; with Eaton approved synthetic lubricants 250,000 miles | 1 year/ 100,000 miles | Initially 1 month/ 6,000 miles; thereafter 1 year/ 75,000 miles | Initially 1 month/ 6,000 miles; thereafter 1 year/ 75,000 miles |
| Shock absorbers | Trucks optional—Tractors standard | | | |

* Depending on ratio.

** Includes weight of axles, suspension, and crossmembers less hubs, brakes, drums, bearings, wheels, and tires.

VOLVO GEAR REDUCTION

1. Pinion
2. Ring gear
3. Bearings
4. Left-hand differential half
5. Right-hand differential half
6. Screw joint
7. Cap
8. Differential gear
9. Support screw
10. Differential lock
11. Driveshaft

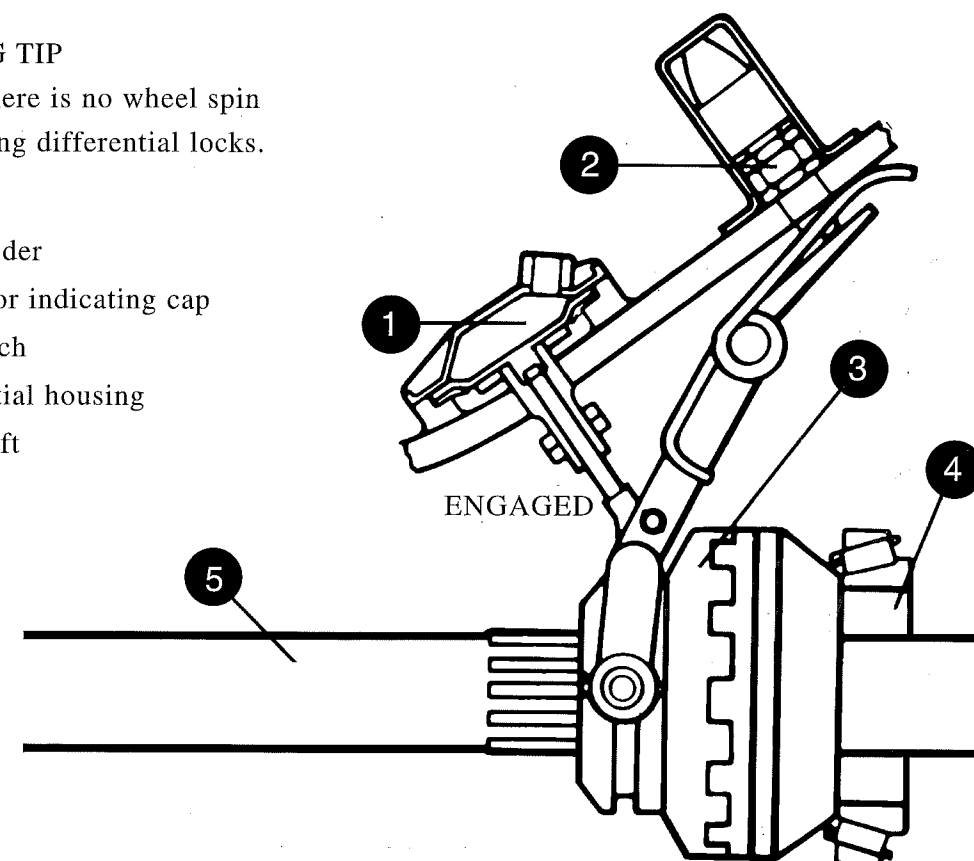


VOLVO DIFFERENTIAL LOCK

OPERATING TIP

Make sure there is no wheel spin when engaging differential locks.

1. Air cylinder
2. Sensor for indicating cap
3. Dog clutch
4. Differential housing
5. Driveshaft



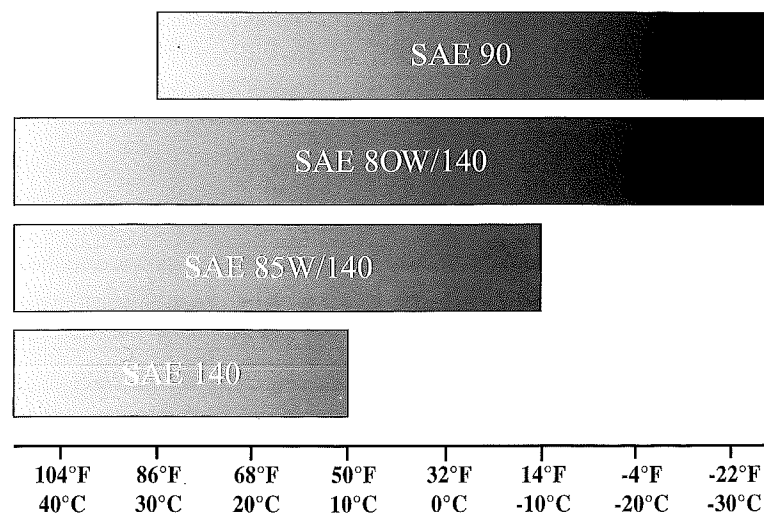
VOLVO OIL RECOMMENDATIONS FOR VBT 4018 AND VBT 4618

Rear axle oil quality

- API GL-5
- In tough driving conditions or when driving mainly at altitudes in excess of 6,500 ft. (2,000 m) above sea level, we recommend SAE 140, SAE 80W/140 or SAE 85W/140, instead of the normal SAE 90.

Oil change intervals

- Initial oil change after 6,000 miles (10,000 km), thereafter yearly or every 75,000 miles (120,000 km), whichever comes first.
- When driving mainly at altitudes in excess of 6,500 ft. (2,000 m) above sea level, these intervals should be halved.



Use this table (based on stable air temperatures) to help choose your oil viscosity.

NOTE: See service publications for complete preventive maintenance recommendations.



VOLVO

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