

# COMPRESSOR REFRIGERANT OIL CHECKING

1995 Volvo 850

1995-96 A/C Compressor Refrigerant Oil Checking

All Volvo Models

## \* PLEASE READ THIS FIRST \*

CAUTION: DO NOT exceed A/C system refrigerant oil capacity, when servicing system. See REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS.

NOTE: See the COMPRESSOR SERVICING article for compressor servicing procedures.

## COMPRESSOR APPLICATION

COMPRESSOR APPLICATION TABLE

Application	Compressor
850 .....	Zexel DKS-15CH 6-Cyl.
940 .....	Seiko-Seiki SS-121DS5
960 .....	Sanden SD-7H15 7-Cyl.

## REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS

### \* PLEASE READ THIS FIRST \*

NOTE: Due to late changes, always refer to underhood A/C specification label in engine compartment or A/C compressor label while servicing A/C system. If A/C specification label and specifications within this article differ, always use label specifications.

## REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY

CAUTION: DO NOT exceed A/C system refrigerant oil capacity, when servicing system.

Only NEW, moisture-free refrigerant oil should be used in the air conditioning system. This oil is highly refined and dehydrated so moisture content is less than 10 parts per million. The oil container must be tightly closed at all times when not in use, or moisture from the air will be absorbed into the refrigerant oil.

REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY TABLE

Application	(1) Oil Ounces	Refrigerant Ounces
850 .....	(2) 6.8 .....	26.4
940 .....	(3) 7.4 .....	34.0
960 .....	(4) 8.5 .....	32.0

(1) - Total system capacity, unless otherwise noted.

(2) - Use PAG Oil (Part No. 11 61 407-0).

(3) - Use PAG Oil (Part No. 11 61 426-0).

(4) - Use PAG Oil (Part No. 11 61 425-0).

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## **SERVICING PRECAUTIONS**

### **DISCHARGING SYSTEM**

Discharge A/C system, using approved refrigerant recovery/recycling equipment. Always follow recovery/recycling equipment manufacturer's instructions. After refrigerant recovery process is completed, the amount of compressor oil removed must be measured and the same amount added to A/C system.

### **DISCONNECTING LINES & FITTINGS**

After system is discharged, carefully clean area around all fittings to be opened. Always use 2 wrenches when tightening or loosening fittings. Some refrigerant lines are connected with a coupling. Special tools may be required to disconnect lines. Cap or plug all openings as soon as lines are removed. Remove caps until connections of lines and fittings are to be completed.

### **CONNECTING LINES & FITTINGS**

**NOTE:** All R-134a based systems use 1/2"-16 ACME threaded fittings. Ensure all replacement parts match the connections of the system being worked on.

Always use a new gasket or "O" ring when connecting lines or fittings. Coat "O" ring with refrigerant oil and ensure it is not twisted during installation. Always use 2 wrenches to prevent damage to lines and fittings.

### **PLACING SYSTEM IN OPERATION**

After component service or replacement has been completed and all connections have been made, evacuate system thoroughly with a vacuum pump. Charge system with proper amount of refrigerant and perform leak test. See REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS for system capacities. Check all fittings that have been opened. After system has been leak tested, check system performance.

**NOTE:** Most compressors are pre-charged with a fixed amount of refrigerant (shipping) oil. Drain compressor oil from new compressor and add refrigerant oil to new compressor according to amount removed from old compressor. Always refer to underhood A/C specification label or A/C compressor label while servicing A/C system.

## **COMPRESSOR OIL CHECKING**

### **SANDEN - 7-CYLINDER**

**NOTE:** Compressor oil checking procedures not available at time of publication. System refrigerant oil capacity is 8.1 ounces.

### **SEIKO-SEIKI - ROTARY VANE**

**NOTE:** Compressor oil checking procedures not available at time of publication. System refrigerant oil capacity is 7.4 ounces.

## ZEXEL - 6-CYLINDER

850

1) Discharge refrigerant. See SERVICING PRECAUTIONS. Remove compressor from vehicle. Drain compressor oil from compressor drain plug and measure oil amount. Add the same amount of oil as was drained from the old compressor.

2) Add 1.7 ounces of refrigerant oil when replacing evaporator. When replacing condenser or hoses, add 0.7 ounce of refrigerant oil per component replaced. Add 3.0 ounces of refrigerant oil when replacing receiver-drier. System refrigerant oil capacity is 6.8 ounces.