



# OILS & LUBRICANTS

## QUICK - REFERENCE GUIDE

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**Refrigerant Oil****REFRIGERANT OIL APPLICATION LISTING****Refrigerant Oil: Application Chart by Compressor Type**

MAKE	COMPRESSOR MODEL	REFRIGERANT	LUBRICANT	CONTAINER	PART No.
DELCO	A6 AND R4	R-12	MINERAL 5GS	1 litre	OI-37625
DELCO	A6 R134a MODELS	R134a	PAG 1234593	250 ml	OI-29500
DELPHI	V5 (MOST)	R134a	PAG	250 ml	OI-29500
DIESEL KIKI	DKS SERIES	R-12	MINERAL 5GS	1 litre	OI-37625
DIESEL KIKI	MOST DKS SERIES	R-134a	PAG	250 ml	OI-29525
DIESEL KIKI	MOST ROTARY; DKV14C/D	R-134a	PAG	250 ml	OI-29500
HALLA	MOST, INCLUDING AU FALCON	R134a	PAG	250 ml	OI-29525
NIPPON DENSO	MOST R-12 MODELS	R-12	MINERAL 5GS	1 litre	OI-37625
NIPPON DENSO	MOST R134a PISTON (10PA SERIES)	R134a	PAG ND8	250 ml	OI-29525
NIPPON DENSO	MOST R134a ROTARY	R134a	PAG ND9	250 ml	OI-29500
PANASONIC	SA1150AA4	R-12	MINERAL 5GS	1 litre	OI-37625
PANASONIC	SA11A1AA4PN	R-134a	PAG	250 ml	OI-29525
SANDEN	ALL R-12 MODEL SD5 SERIES	R-12	MINERAL 5GS	1 litre	OI-37625
SANDEN	ALL R-12 MODEL TR SERIES	R-12	MINERAL 5GS	1 litre	OI-37625
SANDEN	ALL R134a MODEL SD708/709	R134a	PAG SP-20	250 ml	OI-29500
SANDEN	ALL R134a TR SERIES (SCROLL)	R134a	PAG SP-10	250 ml	OI-29525
SEIKO SEIKI	ALL R-12 110, 140, 170 SERIES	R-12	MINERAL 7963	250 ml	OI-37800
SEIKO SEIKI	ALL R134a 110, 140, 170 SERIES	R134a	PAG	250 ml	OI-30925
TAMA	TM13, TM14	R134a	PAG	250 ml	OI-29500
TECUMSEH	HG850, HG1000, HGB1000	R-12	MINERAL 5GS	1 litre	OI-37625
TECUMSEH	HGB1000 R134a WITH ESTER	R134a	ESTER	1 litre	OI-22301
UNICLA	DA299, DC120	R-12	MINERAL 5GS	1 litre	OI-37625
UNICLA	UPS107, UPS109	R134a	PAG	250 ml	OI-29500
YORK	ALL R-12 MODELS	R-12	MINERAL 5GS	1 litre	OI-37625
YORK	ALL R-134a MODELS WITH ESTER	R134a	ESTER	1 litre	OI-22301
YORK	ALL R-134a MODELS WITH PAG	R134a	PAG	250 ml	OI-29500

**GENERAL NOTES**

1. DO NOT MIX OILS. COMPRESSOR OR PUMP DAMAGE MAY RESULT.
2. OILS ARE CHEMICALS; OBSERVE GOOD HOUSEKEEPING PRACTICES AND WEAR PROTECTIVE CLOTHING.
3. OILS ARE HYGROSCOPIC (ABSORB MOISTURE); KEEP TIGHTLY CAPPED WHEN NOT IN USE.
4. VACUUM PUMP OILS ARE SPECIAL OILS WITH A VERY LOW VAPOUR PRESSURE. DO NOT USE REFRIGERANT OILS IN VACUUM PUMPS.
5. CONTAINER TYPES AND SIZES MAY VARY FROM TIME TO TIME - CHECK BEFORE ORDERING.
6. CHECK RECOVERY PUMP OIL SPECIFICATION CAREFULLY, NOT ALL MODELS USE THE SAME OIL.

**WARRANTY**

THE USE OF LUBRICANTS NOT SPECIFICALLY RECOMMENDED BY THE COMPRESSOR MANUFACTURER MAY VOID COMPRESSOR WARRANTY. THE COMPRESSOR MANUFACTURER'S RECOMMENDATION SHOULD BE FOLLOWED WHERE THE COMPRESSOR IS UNDER WARRANTY.

**Oils and Lubricants**

**COMPRESSOR OILS**



**ESTER**

- OI-22301 - 1 Litre
- OI-22305 - 5 Litre

Popular oil for R134a retrofit application

pourer is incorporated in 5 litre container.



**PAG**

PAG oils have been used in almost 100% of new systems since R134a was introduced.

*It is imperative to add only the correct PAG oil to a system which is currently using PAG.*



OI-29500 - 250 ml High Viscosity General Purpose **Replacement for:**

- N-Denso ND 9
- Sanden SP 20
- Apollo 100
- PAG 2
- Johnson 567

OI-29525 - 250 ml Low Viscosity General Purpose **Replacement for:**

- N-Denso ND 8
- Sanden SP 10
- Apollo 46
- PAG 1
- Unidap 7

OI-30925 - 250ml Seiko Seiki



**MINERAL**

Part No.	Size	Type	Base	Refrig.	APPLICATION
OI-37625	1 litre	5-GS	NAPTHENE	R-12	most automotive R12 compressors
OI-37650	4 litre	5-GS	NAPTHENE	R-12	most automotive R12 compressors
OI-37745	200 gms	5-GS	NAPTHENE	R-12	spray pack for lubrication of fittings, etc.
OI-37800	250 ml	7963	PARAFFIN	R-12	Seiko Seiki R-12 models



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**Oils and Lubricants****RECOVERY and VACUUM PUMP OILS**

Part No.	Use	Size	Type	Base	Refrig.	Application
OI-22301	Recovery Pump	1 litre	ESTER	SYNTHETIC	R134a	Most Robinair R134a Recovery Units
OI-37950	Vacuum Pump	250 ml		NAPHTHENE	N - A	Most REFCO Vacuum Pumps
OI-37952	Vacuum Pump	1 litre		NAPHTHENE	N - A	Piston & Rotary Vacuum Pumps
OI-37954	Vacuum Pump	4 litre		NAPHTHENE	N - A	Piston & Rotary Vacuum Pumps

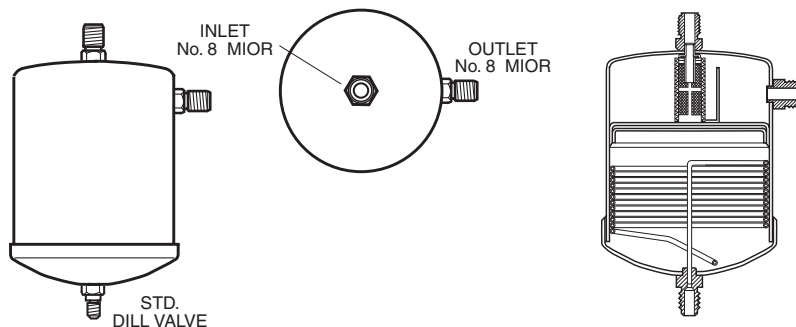
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**WARRANTY**

THE USE OF LUBRICANTS NOT SPECIFICALLY RECOMMENDED BY THE MANUFACTURER MAY VOID WARRANTY.

MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED IF THE EQUIPMENT IS UNDER WARRANTY.

**OIL SEPARATORS****OS-82318****General Purpose Oil Separator****Oil Separators : Function and Operation**

An oil separator is designed to collect oil from the refrigerant discharged from the compressor, and return it to the compressor .

Compressors tend to pump some oil out into the air conditioning system with the hot vaporized refrigerant discharged into the condenser.

Too much oil in the system can be detrimental to system operation, and insufficient oil in the compressor oil sump can cause compressor damage and consequent failure.

Oil which collects in areas such as the condenser and evaporator coil is not easily removed, and too much oil in these components will affect the performance of the system.

Oil Separators are not usually required in normal automotive air conditioning systems in passenger vehicles, but may be required in bigger, or special, systems.