

TECHNICAL NEWS

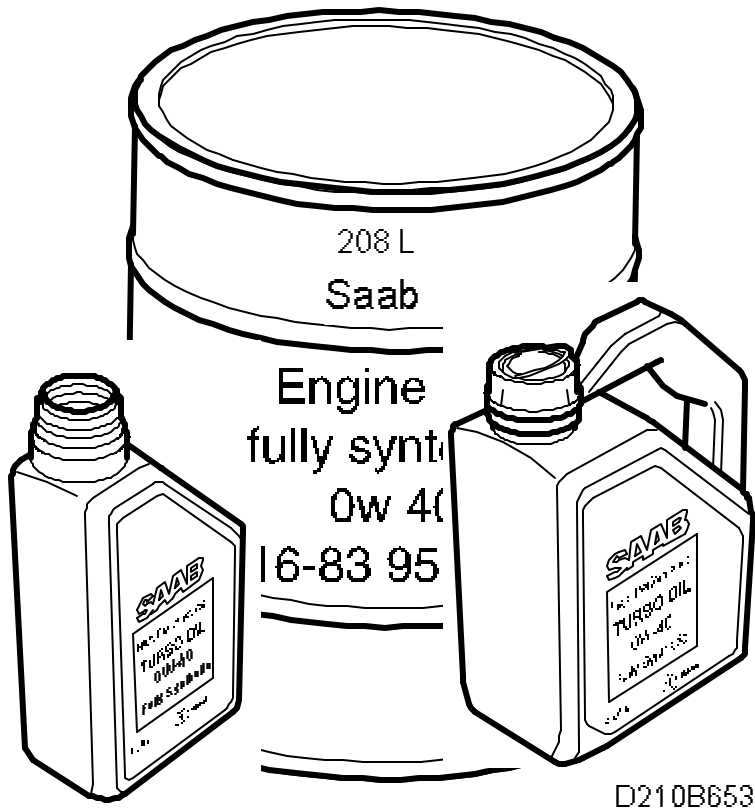
Bulletin Nbr: 00-07-210

Date:juli 2000

Market: Alla

Recommended oil grades**Cars affected**

All 900, 9000, 9-3 and 9-5

**Background**

Synthetic engine oil is now used during assembly (as of April 2000) and is the standard oil in cars leaving the plant.

Synthetic oil have been introduced due to the environmental aspects, and the requirements of increased service life and improved fuel economy. By using the oils that have been tested by Saab, results such as the build up of contaminants are avoided. Such contaminants can block the lubricating system and damage engine components.

Engine performance: One parameter that affects the full-power performance of the engine is the viscosity of the oil and the fiction modifiers it contains. Therefore, the oil recommendations of for viscosity classes SAE 30 - 40 must be followed. Due to the advantages flow characteristic of the oil at low temperatures, remote parts in the lubricating system are quickly reached, reducing engine wear.

Fuel economy: By selecting an oil with as low a viscosity as possible, fuel economy is improved. However, problems with wear can arise if the oil film is too thin due to its low

viscosity. The solution is the modifiers found in Saab oils, which make the oil thinner at low temperatures and thicker at high temperatures. The synthetic oil also reduces fuel consumption while the engine is warming up.

Driveability: Saab synthetic oil makes starting the engine at low temperatures easier.

Longevity: Since there is an ever increasing requirement for the intervals between services to increase, it is essential that the properties of the oil additives are retained throughout its service life. Certain additives are expended too early and cause the build up of deposits in the oil sump. One aspect often neglected is that if the car is primarily driven in urban traffic, with many starts and short journeys, the oil will have to be changed more regularly. Under such operating conditions, the oil can be diluted by fuel, becoming thinner and its lubricating qualities deteriorating.

Environmental aspects: Reducing fuel consumption reduces emissions, primarily carbon dioxide, (CO₂).

Service and oil changes: The oil change intervals, as specified in the Saab service programme, must be followed. This is vital to guarantee the service life of all engine components and thus optimum engine performance. We recommend that fully synthetic oil be used in cars subjected to demanding driving in severe temperatures.

Procedure

Always use recommended Saab oils as specified in the table below.

	High-performance engine (turbo), petrol	Normally aspirated engines, petrol	Diesel engines
Saab High Performance Turbo Oil 0W-40 Fully synthetic	X	0	0
Saab Turbo Oil 5W-30 Semi-synthetic	X	0	X
Saab Engine Oil 10W-40 Mineral oil		X	

X=Lowest requirement, 0=Recommended

Part number:

400 127 072, Fully synthetic SAE 0W-40, 1L

400 127 080, Fully synthetic SAE 0W-40, 4L

16-83 95 618, Fully synthetic SAE 0W-40, 208L

315 155 002, Semi-synthetic SAE 5W-30, 1L

315 159 004, Semi-synthetic SAE 5W-30, 4L

16-83 95 642, Semi-synthetic SAE 5W-30, 208L

315 150 003, Mineral SAE 10W-40, 1L

315 154 005, Mineral SAE 10W-40, 4L

16-83 95 634, Mineral SAE 10W-40, 208L

Recommended oils fulfil API SH/SJ and ACEA A3/B3-98 requirements.

We advise against the use of additives.

For further information, see the car's Owner's Manual or the Service section of WIS.