

# BREAKING-IN AND ACCEPTANCE STANDARDS

## Breaking-in and Testing Engines

52 EN

### General

The life and performance of an engine depends greatly on the treatment it receives during the first few hours of operation. New or reconditioned engines should therefore be treated with great care during the break-in period.

The following basic rules should be observed

1. The engine should be broken-in under its own power.
2. Let the engine warm up slowly.
3. Increase speed slowly.
4. Run the engine at high speed only as long as is necessary to check for oil leaks, oil pressure, proper blower operation, and to measure the power output.
5. Use only high quality no-additive oil.  
Summer: SAE 30  
Winter: SAE 20

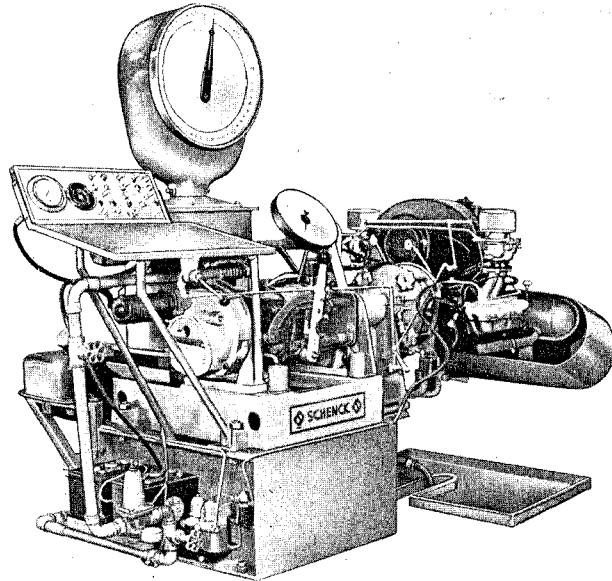


Fig. 248

### Note:

After break-in or when changing the oil the first time at 500 km (300 mi.) the no-additive engine oil should be replaced with high quality approved HD-oil. At this time the by-pass oil filter element should be replaced. Thereafter the oil should be changed as specified in the Lubrication chart.

## Rebuilt Engines

53 EN

Rebuilt engines are considered to be those which have (among other parts) new pistons, cylinders, and bearings.

### Preliminary inspection

1. Adjust valve clearance (31 EN).
2. Adjust contact-breaker points and ignition timing.
3. Check V-belt tension (8 EN).
4. Fill engine to dip stick full mark with high quality oil (approx. 5 l or 5.4 qts.).

5. Check compression.

This test is best carried out with a spark plug compression gauge or a recording compression gauge. The throttle valve should be wide open. Remove all spark plugs and crank the engine with the starter.

The variation in pressure readings for all four cylinders should not exceed 1.2 kg/cm<sup>2</sup> (17 psi).

6. Check oil pressure.