Silicone samples

With any sample kit you will get an instruction for taking a silicon fluid sample from dampers.

Taking a silicon fluid sample from Viscous Torsional Vibration Dampers

1. After the engine stops, let the damper cool down to nearly 40°C (100°F).
2. Rotate the damper to bring one of the extraction plugs (2') to optimum position.
3. Prepare the sample container (6) by removing one of its caps (7).
4. Unscrew and remove the extraction plug (2') and replace it by the sample container (6). If meeting at the inertia ring (5), unscrew the container one revolution.
5. Remove the second cap (7) from the sample container (6) and wait until silicon fluid (3') begins to flow out from the free end. Depending on the silicone viscosity, this process needs a certain amount of time. If possible, it can be speeded up by means of:
   1. turning the damper until the sample container (6) is underneath the crankshaft.
   2. temporarily removing the second extraction plug (2'), too. Do not forget to put a new sealing washer (4) on the extraction plug (2').
6. As soon as the silicon fluid (3') begins to flow, shut the sample container (6) by the cap (7). Remove the container from the damper casing, wipe off the sealing face around the extraction hole and screw in the plug (2') together with new sealing washer (4). Now close the second side of the container.
7. Tighten both extraction plugs (2) with thumb and forefingers as much as possible then turn further for 45° (about 2-38 kg·cm=170 lb·ins torque).
8. Seal both plugs (2) by caulking their grooves.
9. Fill out the label completely. Very important is the damper type (8), alternately outside diameter and width, the damper running hours and the engine type and the complete address with fax no. and tel. no. of the person to receive the report. Send the sample container with the label to the engine manufacturer or to our address (see at the bottom).

The quantity of silicone oil removed is so small that up to 15 such samples can be taken without risk.

The viscosity of the silicon oil sample is best measured by Hasse & Wrede, who can assess the approximate condition of the damper analysing the sample. Hasse & Wrede will also indicate the operating period after which a fresh sample should be tested or the damper to be replaced.

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