Tech Bulletin



Technical Services Department, Mazda Australia Pry. Limited.

Subject: NS842 06

Issued: 19/Jul/2006

Bevised:

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Title:

ROTARY ENGINE OIL RECOMMENDATIONS

Model(s): ALL ROTARY MODELS

Category:

Frontline Advice

Distribution: Dealer Principal Service Manager

Parts Manager

Sales Manager

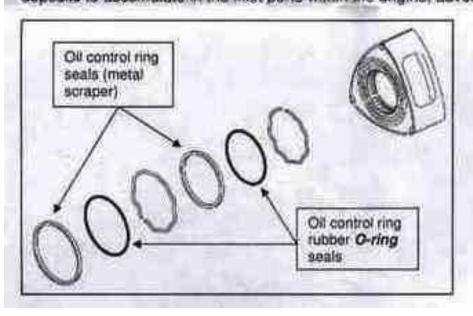
Technician Initials:

This Technical Bulletin relates to the application of correct engine oil types in Rotary engines.

Synthetic oils or blends are prohibited in all Mazda rotary engines including Renesis in RX-8. Only mineral ails must be used.

All Pre-Renesis engines (i.e. in vehicles other than RX-8) have a set of internal rubber o-ring seals (refer diagram below), which are designed to keep the oil from the lubrication system out of the combustion chambers. Synthetic oils (or synthetic/mineral blends) can attack the material in the orings, causing them to break down and deteriorate. This may lead to high oil consumption, smoke from the exhaust, fouled spark plugs and reduced engine life.

Renesis Engines (i.e. in RX-8): Using synthetic oils in these engines can cause undesirable carbon deposits to accumulate in the inlet ports within the engine, adversely affecting engine operation.



Service Information

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Coverage Distributor only Please inform your dealers				Date lassed August 10, 2	Date lassed August 10, 2006	
Please convey this information to your Director General Manager Warranty Dept. Parts Dept. Training Dept. Field Rep.			Date Revised			
Applicable Model RX-8, RX-7			Applicable Countries or Specifications European Market			

Subject: Rotary Engine Oil (Prohibition of Use of Synthetic Engine Oil)

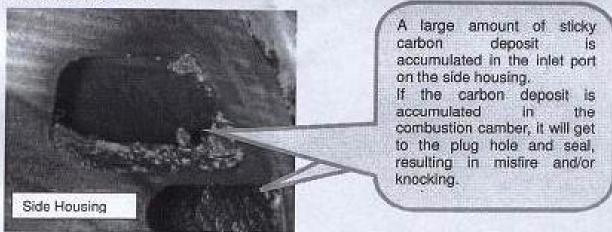
DESCRIPTION

If synthetic engine oil is used on rotary engine, there is a possibility that carbon deposit may accumulate, which will cause some trouble in the engine.

Please advise your customers to use only Mazda genuine mineral engine oil or equivalent mineral oil on the rotary engine. Mazda do not recommend that our customers use synthetic or semi-synthetic engine oils that our R&D has not evaluated.

Mazda recommends DEXELIA ULTRA 5W30 (ACEA A5/B5) for use in Mazda rotary engines.

The following is an example of carbon deposits that appear on the rotary engine in which synthetic engine oil is used.



As for the Owners Manual of RX-8, it will be revised by adding this notation as per the following schedule. (The revised section is "Owner Maintenance", Section 8 "Engine Oil".)

The Owners Manual will not be revised, but leaflet has been included since July 1, 2006 production vehicles.

K. Truji

Koji Tsuji Manager, Technical Information Gr. Technical Service Dept. Mazda Motor Corp.