

Service Information

Mazda Motor Corporation

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Category E	Technical	Ref. No. E024/06	Page 1 of 2
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued September 28, 2006	
Please convey this information to your <input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Date Revised November 6, 2008	
Applicable Models All MC Production Models		Applicable Countries or Specifications Worldwide	

Updated

Subject: Caution for Coolant

Update Note: Applicable Models and Markets have been updated.

DESCRIPTION

Some vehicles may experience perforation or mechanical seal wear in the cylinder head and/or water pump body.

Our investigation revealed that the coolant used in the investigated vehicles contained high concentration of borate and/or silicate.

This kind of coolant is popular in the market because it is relatively cheap, however it will cause damage to aluminum parts and should strictly be prohibited.

Further more, soft water should be used as dilution water. Do not use well water.

Please advise your dealers and customers not to use any coolant containing borate or silicate.

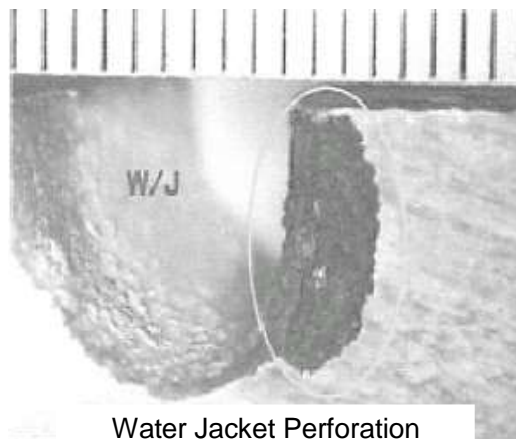
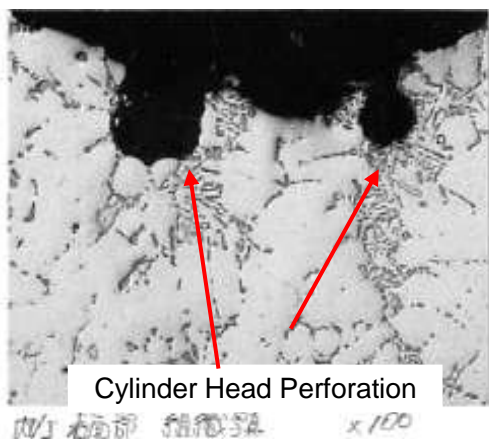
Any problems caused by the use of such coolant cannot be covered by warranty assistance.

	Action / Effect	Possible damage
Borate	<ul style="list-style-type: none"> * Effective for rust prevention of ferrous metal. * May cause aluminum corrosion through the formation of high alkaline compounds (pH 9-11). * In some cases, may damage anticorrosive coating and corrode aluminum parts. * May directly corrode aluminum parts. 	<ul style="list-style-type: none"> * Cylinder head perforation * Water pump body perforation * Aluminum radiator perforation * Heater core perforation
Silicate	<ul style="list-style-type: none"> * Effective for rust prevention of aluminum, but tends to gel (crystallized at a high temperature becoming sediment) and to become vitrified solid because of the instability 	<ul style="list-style-type: none"> * Water pump mechanical seal wear * Vitrified solid caught between seals causes damage to the seals.

Recommended Mazda genuine coolant

Part number	Volume	Remarks
K018-W0-122	18 liter	FL22

This is the affect on the material due to poor coolant.



Damaged Mechanical Seal



Damaged Mechanical Seal



Shinji Kanai
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Technical Service Dept.
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