

Maintenance Procedure

No. MP305

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TASK DESCRIPTION CHECK MAIN ENGINE COOLANT FOR PROPER CHEMICAL MIXTURE
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS MPI LOCOMOTIVE MAINTENANCE MANUAL, SECTION 3
SPECIAL TOOLS REQUIRED:
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
SAFETY PRECAUTIONS: CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION:

PROCEDURE

With main engine warm and running:

1. Relieve pressure by slowly opening the manual vent valve, then closing it.
2. Obtain coolant sample from petcock on bottom of expansion tank sight gauge.
3. Test the coolant for content and concentration of additives and harmful chemicals. Refer to Table below for desired parameters. A test kit can be used or the sample may be sent to an SCA manufacturer.
4. Add SCA in accordance with the manufacturer's instructions to maintain a concentration of 3 to 6 percent.

<i>Table 3-2: MINIMUM ACCEPTABLE WATER QUALITY</i>		
Water Content	Limits	
	Grains/ Gallon	Parts Per Million
Chlorides	2.5	40
Sulfates	2.9	50
Total Hardness	5.9	100
Total Solids	14.7	250
pH	5.5 - 9.0	

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