



NISSAN MOTOR CORPORATION IN U.S.A.

Post Office Box 191
Gardena, California 90248
Telephone: (310) 532-3111

TECHNICAL DATABASE INFORMATION

Record ID:	Source Reference Number:	Classification:
FC0008672	FI81296	JUL '93
Subject:	Entered On:	
ENGINE PINGS	07/21/93	
Model Line:	Model Year:	
NIS	ALL	

Technical Information Abstract:

SYMPTOMS: ENGINE DETONATION (PINGS) ON LIGHT TO MODERATE ACCELERATION. SELF-
ALL YEARS DIAGNOSIS SHOWED NO TROUBLE CODES. ENGINE TEMPERATURE WAS NORMAL.
ALL MODELS TIMING SET TO SPECIFICATION. INCIDENT IS LESS SEVERE WHEN USING A
HIGHER OCTANE FUEL. COMPRESSION TEST, HIGHER THAN NORMAL.

FIELD FIX: FOUND CARBON DEPOSITS BUILT UP ON TOPS OF PISTONS CAUSING A RISE
IN COMPRESSION. USE THE FOLLOWING PROCEDURE FOR CARBON REMOVAL:

1) WARM ENGINE TO NORMAL TEMP. (2000 RPM, 3-5 MINUTES).

2) REMOVE SPARK PLUGS.

3) POUR 3/4 - 1 OUNCE OF NISSAN INJECTOR CLEANER, ==>

P/N 99990-10017, ON TOP OF EACH PISTON (BARELY COVERING TOP OF PISTONS).

ALLOW CLEANER TO SOAK FOR 8-12 HOURS. NOTE: EXCESSIVE AMOUNTS OF CLEANER
COULD CAUSE POSSIBLE DAMAGE WHEN RESTARTING ENGINE.

4) CRANK ENGINE (WITHOUT SPARK PLUGS) WITH SHOP TOWEL COVERING SPARK PLUG
HOLES TO REMOVE EXCESS CLEANER.

5) REINSTALL ORIGINAL SPARK PLUGS. REMOVE O2 SENSOR & INSTALL A 'TEST' SENSOR
(O2 SENSOR MAY BE DAMAGED IF NOT SUBSTITUTED). START ENGINE WITH WIDE OPEN
THROTTLE. HOLD ENGINE AT 2000 RPM FOR 3-5 MINUTES.

6) DRAIN/REPLACE CONTAMINATED OIL/FILTER, REPLACE SPARK PLUGS, REINSTALL O2
SENSOR, ROAD TEST USING SEVERAL WIDE OPEN THROTTLE ACCELERATIONS.

Index # 034902