



TECHNICAL DATABASE INFORMATION

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