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Engine running rough, engine lacks power or fuel consumption excessive

Check that hoses on the intake side are free from damage and are connected properly, intake manifold is not loose, gaskets are free from damage which permits air to be drawn into engine, and that oil filler cap and oil level gauge rods are installed properly

Check spark plugs for fouling or wetness

NO

OK

Repeat test with spark plug replaced

Air-fuel mixture too rich

to 15

Further checks unnecessary

Check to see if battery voltage is present at control unit harness connector terminal ⑰ when starter switch is turned to ON position and throttle valve is completely closed.

NO

OK

to 11

Check ignition timing

NO

OK

Adjust

NO

Replace air cleaner element

NO

Clean

Check air cleaner for restrictions

OK

Check holes in crank angle sensor rotor plate for restrictions

OK

Disconnect EGR pipe from exhaust manifold and make a test with pipe plugged

Check function of thermal valve (TVV)

NO

OK

Replace TVV

NO

Replace BPT

Check function of back pressure transducer (BPT)

OK

Replace EGR valve

NO

NO

OK

Check for fluctuations in charging current caused by defective generator bearings or loosened case

Further checks unnecessary

(Continued on next page)