HYUNDAI

# ENGINE DIAGNOSIS WORKSHEET

## SERVICE ADVISOR'S SECTION

V.I.N. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ Mileage ☐☐☐☐☐☐

R.O. ☐☐☐☐☐☐ Repair Date ☐☐/☐☐/☐☐ Dealer Code ☐☐☐☐☐

### SYMPTOM

What is the specific condition? _____

How long has it been happening? _____

How often does it occur: ❒ Always ❒ Intermittent ➔ Occurs more when the engine temp is: ❒ Hot ❒ Cold

Has the car been in for this condition before: ❒ No ❒ Yes ➔ How many times? _____

Can you duplicate the condition: ❒ Yes ❒ No How: _____

## TECHNICIAN'S DIAGNOSIS SECTION

What is the specific condition code? ☐☐☐
(See Reverse Side)

**MUST BE ENTERED TO RECEIVE CREDIT**
(Determine the condition after diagnosis. Refer to Engine Condition Codes chart)

### CONDITION DETAIL

List any engine related DTC(s) from diagnostic SST: _____

Oil Consumption: ❒ Normal ❒ Excessive ➔ Consumption Rate: _____ (quarts) per _____ (miles)

Overheating? ❒ No ❒ Yes ➔ Thermostat Stuck Closed? ❒ No ❒ Yes ➔ (Replace Thermostat Assembly)

Leaking? ❒ None ❒ Oil ❒ Coolant Location of fluid leak: _____

Noise Condition? ❒ No ❒ Yes ➔ Noise type: _____ ➔ Location: _____

Valve Timing OK? ❒ Yes ❒ No ➔ What was found? _____

Does engine rotate freely? ❒ Yes ❒ No ➔ What is cause? _____

### MECHANICAL INSPECTION

Engine Oil **(Level)**: ❒ No Oil ❒ Low ❒ Normal ❒ High **(Color)**: ❒ Normal ❒ Dark ❒ Contaminated

Engine Coolant **(Level)**: ❒ None ❒ Low ❒ Normal ❒ Overflowed **(Color)**: ❒ Normal ❒ Contaminated

Cylinder Compression **(PSI)**: #1_____ #2_____ #3_____ #4_____ #5_____ #6_____ #7_____ #8_____

Cylinder Leakdown **(%)**: #1_____ #2_____ #3_____ #4_____ #5_____ #6_____ #7_____ #8_____

Low Oil Pressure Warning Lamp illuminates at idle? ❒ No ❒ Yes

If this is a second remanufactured engine repair, **STOP** and Contact Hyundai Technical Assistance Line (800-325-6604) for diagnostic confirmation and Case # **or** DPSM for Authorization #.

Case #: ☐☐☐☐☐☐☐

Authorization #: ☐☐☐☐☐☐

Engine Serial # **(OLD)**: ☐☐☐☐☐ – ☐☐☐☐☐☐☐

Engine Serial # **(NEW)**: ☐☐☐☐☐ – ☐☐☐☐☐☐☐

Installed Engine P/N: ☐☐☐☐☐ – ☐☐☐☐☐ _____

Service Manager's Signature: _____

Technician Social Security # **(last 4 digits ONLY)**: ☐☐☐☐

***Attach TOP copy of this form to Core Return Checklist, retain BOTTOM copy of this form with the Repair Order.***

PTS-1304 5/12
(Previously NP150-08012 6/08)

SAVE COMPLETED FORM | PRINT COMPLETED FORM | RESET

HYUNDAI

# ENGINE DIAGNOSIS WORKSHEET

## ENGINE CONDITION CODES

| CODE | DESCRIPTION |
|---|---|
| | **LOW COMPRESSION/MISFIRE** |
| 300 | Multiple Cylinders Low Compression/Misfire |
| 301 | Cylinder 1 Low Compression/Misfire |
| 302 | Cylinder 2 Low Compression/Misfire |
| 303 | Cylinder 3 Low Compression/Misfire |
| 304 | Cylinder 4 Low Compression/Misfire |
| 305 | Cylinder 5 Low Compression/Misfire |
| 306 | Cylinder 6 Low Compression/Misfire |
| 307 | Cylinder 7 Low Compression/Misfire |
| 308 | Cylinder 8 Low Compression/Misfire |
| | **ENGINE OIL/PRESSURE RELATED** |
| 310 | Excessive Oil Consumption |
| 311 | Excessive Tailpipe Smoke |
| 312 | Insufficient/No Oil Pressure |
| 313 | Engine Oil Foreign Contamination |
| | **COOLANT/TEMP RELATED** |
| 320 | Poor Coolant Flow / Insufficient Heating |
| 321 | Overheating |
| | **LEAKS** |
| 330 | Engine Oil Leaks Through Block |
| 331 | Engine Oil Leaks Through Head |
| 332 | Engine Oil Leaks Into Coolant Supply |
| 333 | Other Oil Leaks (specify) |
| 334 | Coolant Leaks Through Block |
| 335 | Coolant Leaks Through Head |
| 336 | Coolant Leaks Into Combustion |
| 337 | Coolant Leaks Into Oil Supply |
| 338 | Other Coolant Leaks (specify) |

| CODE | DESCRIPTION |
|---|---|
| | **ENGINE NOISE** |
| 340 | Noise from Cylinder Head Area |
| 341 | Noise from Piston/Pin Assembly |
| 342 | Noise from Con-Rod/Crank Assembly |
| 343 | Noise from Timing Mechanism |
| 344 | Other Engine Noise (specify) |
| | **REGULATORY** |
| 350 | Engine Related Codes (specify DTC) |
| 351 | Excessive Emissions (need document) |
| 352 | Misc. Driveability Related (specify) |
| | **ENGINE TIMING SYSTEM** |
| 360 | Improper Valve Timing |
| 361 | Camshaft Out of Spec (specify) |
| 362 | Crankshaft Out of Spec (specify) |
| | **CASTINGS / COMPONENTS** |
| 370 | Cylinder Block Broken/Cracked (specify) |
| 371 | Cylinder Head Broken/Cracked (specify) |
| 372 | Crankshaft Broken/Cracked |
| 373 | Connecting Rod(s) Broken/Cracked |
| 374 | Camshaft(s) Broken/Cracked |
| 375 | Piston(s) Broken/Cracked |
| 376 | Other Component Broken (specify) |
| | **WILL NOT MOVE** |
| 380 | Camshaft(s) Seized |
| 381 | Crankshaft Seized |
| 382 | Other Component Seized (specify) |