2015 Hyundai Sonata at 91,000 mi

5NPE24AF1FH123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
Sonata · LF Sonata SE 2.4 GDI	Hyundai/Kia Theta II four-cylinder (2.4L GDI and MPI, 2.0L turbo, 2.0L MPI in the 2010–2013 Forte)	91,000 mi	FWD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 27, 2026	Owner	Sample Owner

VIN check: check digit valid; model-year code 'F' = 2015, matches the year entered. The VIN doesn't record the build month. Sample report: synthetic VIN.

1 · SUMMARY

What this car needs, in order

Each item compares this car's mileage with when owners and shops report the part failing. It is not an inspection: a qualified technician decides what the car actually needs.

1
inspection recommended now

0
to plan in the next 30,000 miles · plus 1 factory maintenance item

1
to watch or check at each service

Safety recalls NHTSA lists for this model year (7 of 8)

- **17V-359** · Parking brake warning light: If the parking brake indicator is not illuminated when the parking brake is applied, the driver may operate the vehicle with the parking brake partially engaged, increasing the risk of a crash.
- **16V-726** · Sunroof glass: If the sunroof detaches from the vehicle it could become a road hazard, increasing the risk of a crash.
- **16V-232** · Air bags · driver frontal: An air bag that does not inflate increases the risk of injury.
- **15V-678** · ABS warning light: If the driver is alerted there is a brake system malfunction, but not specifically with the ABS system, the driver may operate the vehicle unaware that the vehicle's brakes may lock up during hard braking, increasing the risk of a crash.
- **15V-414** · Seat belts · front passenger buckle: If the front passenger seat belt cannot be latched, an occupant sitting in the front passenger seat has an increased risk of injury in the event of a crash.
- **14V-368** · Brakes · front calipers: If a brake caliper fractures, brake effectiveness would be reduced, lengthening to distance required to stop the vehicle, increasing the risk of a crash.
- **14V-325** · Steering · power assist wiring: The reduction of power steering assist can increase the steering effort needed, increasing the risk of a crash.

A model-year list, not a VIN check. The full report lists the others. Repairs are free at a Hyundai dealer if open. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Hyundai dealer for a campaign printout. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service — $100–$160

Inspection: check now, while it's cheaper to fix — $100–$160

about 1 h of shop labor, our estimate

Connecting-rod bearing wear and engine seizure: Inside the range (50,000–108,000 mi, the middle half of 1158 owner reports) · **may be free at a Hyundai dealer** (KSDS software update free (Hyundai campaign 953 / Kia PI1802)) · if it fails outside that coverage: $1,400–$8,000

Excessive oil consumption: Inside the range (65,000–105,000 mi, the middle half of 374 owner reports) · if it fails: $580–$940 labor only, parts extra

Known weak points for this engine, not findings on your car. The inspection shows whether yours has early signs.

Next 12 months up to about 103,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 121,000 mi

Nothing else enters its reported range in this window.

Watch inspect at each service, fix on condition, or optional

Fuel pump filter housing crack (P1233, reduced power, no start)

`Free if covered` check the VIN

Past the range (16,000–79,000 mi, the middle half of 16 owner reports) · Ask for this check at every service

Recommended now

$100–$160

Independent shop, installed. Dealers often charge more.

Planned through 121,000 mi

$100–$160

No other repairs on the list before 121,000 mi. Now + next 12 months + next 30,000 miles. Excludes factory maintenance (listed separately), “watch” and optional items.

Costs are published independent-shop ranges (low end + low end, high end + high end). Bundled jobs are priced together because the labor overlaps. Routine service (oil, brakes, tires) isn't included; factory fluid and spark plug intervals are listed below.

FACTORY MAINTENANCE

Scheduled maintenance from 91,000 mi to 121,000 mi

The maker's normal schedule for this car. Service history isn't known here, so an item is shown at its next interval mark; skip it if the records show it was done.

ITEM	INTERVAL	THIS CAR
Spark plugs (2.4 GDI) Iridium plugs; replaced at the 105,000-mi service (Optima 2014-2015: "every 105,000 miles or 84 months").	every 105,000 mi	**Due at 105,000 mi** [M1][M2]
Automatic transmission fluid Owner's manual normal schedule: "No check, No service required" (factory-fill fluid). No replacement interval is published.	no fixed interval	— [M1][M2][M16]
Brake fluid Normal schedule says inspect only (no replacement interval printed for this model year).	no fixed interval	— [M1][M2][M16]

M1. 2014 Hyundai Sonata Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2014-Hyundai-Sonata-OM.pdf

M2. 2017 Hyundai Sonata Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2017-Hyundai-Sonata-OM.pdf

M3. 2014 Hyundai Santa Fe Sport Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2014-Hyundai-Santa-Fe-Sport-OM.pdf

M4. 2017 Hyundai Santa Fe Sport Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2017-Hyundai-Santa-Fe-Sport-OM.pdf

M5. 2014 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2014-Kia-Optima-OM.pdf

M6. 2015 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2015-Kia-Optima-OM.pdf

M7. 2016 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2016-Kia-Optima-OM.pdf

M8. 2017 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2017-Kia-Optima-OM.pdf

M9. 2018 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2018-Kia-Optima-OM.pdf

M10. 2017 Kia Sportage Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2017-Kia-Sportage-OM.pdf

M11. 2018 Kia Sportage Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2018-Kia-Sportage-OM.pdf

M12. 2019 Kia Sportage Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2019-Kia-Sportage-OM.pdf

M13. 2020 Kia Sportage Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2020-Kia-Sportage-OM.pdf

M14. 2021 Kia Sportage Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2021-Kia-Sportage-OM.pdf

M15. 2022 Kia Sportage Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2022-Kia-Sportage-OM.pdf

M16. 2019 Hyundai Sonata Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2019-Hyundai-Sonata-OM.pdf

M17. 2019 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2019-Kia-Optima-OM.pdf

M18. 2020 Kia Optima Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2020-Kia-Optima-OM.pdf

M19. 2016 Kia Sorrento Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2016-Kia-Sorrento-OM.pdf

M20. 2017 Kia Sorrento Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2017-Kia-Sorrento-OM.pdf

M21. 2018 Kia Sorrento Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2018-Kia-Sorrento-OM.pdf

M22. 2019 Kia Sorrento Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2019-Kia-Sorrento-OM.pdf

M23. 2020 Kia Sorrento Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2020-Kia-Sorrento-OM.pdf

M24. 2018 Hyundai Tucson Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2018-Hyundai-Tucson-OM.pdf

M25. 2019 Hyundai Tucson Owner's Manual, Normal Maintenance Schedule (Hyundai owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2019-Hyundai-Tucson-OM.pdf

M26. 2019 Genesis G70 Owner's Manual, Normal Maintenance Schedule (Genesis owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2019-Genesis-G70-OM.pdf

M27. 2021 Genesis G70 Owner's Manual, Normal Maintenance Schedule (Genesis owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/07/2021-Genesis-G70-OM.pdf

M28. 2018 Kia Stinger Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2018-Kia-Stinger-OM.pdf

M29. 2019 Kia Stinger Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2019-Kia-Stinger-OM.pdf

M30. 2020 Kia Stinger Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2020-Kia-Stinger-OM.pdf

M31. 2021 Kia Stinger Owner's Manual, Normal Maintenance Schedule (Kia owner's manual; copy hosted on dezosmanuals.com) OFFICIAL
https://dezosmanuals.com/wp-content/uploads/2021/09/2021-Kia-Stinger-OM.pdf

WHERE 91K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Connecting-rod bearing wear and engine seizure	50,000–108,000 mi (middle half of 1158 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Inside the range
2	Excessive oil consumption	65,000–105,000 mi (middle half of 374 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Inside the range
3	Fuel pump filter housing crack (P1233, reduced power, no start)	16,000–79,000 mi (middle half of 16 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA	Past the range

Colors compare mileage with reported failures, not the car's condition. Red: past the range. Amber: inside or approaching. Green: below, or not listed for a recall.

2 · RECALLS AND BULLETINS

Recalls to check for this 2015 Hyundai Sonata

Safety recall repairs are free at Hyundai dealers. Nothing here can tell whether a recall is open or already done on this VIN; only the official VIN lookup or a dealer can.

Official VIN check (2 minutes)

1. Go to nhtsa.gov/recalls and enter 5NPE24AF1FH123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Hyundai dealer for a campaign printout; it also lists completed campaigns.

2.0T / 2.4L THETA II GDI RECALLS WE TRACK

15V-568 · Crankshaft machining debris can wear the rod bearings (2011–2012 Sonata 2.0T/2.4)

Not listed for MY2015

Debris left from crankshaft machining can restrict oil flow to the connecting-rod bearings, which can knock and fail. Free inspection and engine replacement if needed. OFFICIAL [10]

17V-224 · Machining errors can cause bearing wear (2011–2014 Optima, 2012–2014 Sorento, 2011–2013 Sportage)

Not listed for MY2015

Machining errors may cause premature bearing wear. Free inspection and engine replacement if needed. OFFICIAL [10]

17V-226 · Machining errors can cause bearing wear (2013–2014 Sonata and Santa Fe Sport)

Not listed for MY2015

Machining errors may cause premature bearing wear. Free inspection and short-block replacement if needed. OFFICIAL [10]

21V-727 · Rod bearings may wear early (2017 Tucson)

Not listed for MY2015

The connecting-rod bearings may wear prematurely. Free inspection, engine replacement if damaged, and KSDS software. OFFICIAL [10]

20V-746 · Rod bearings may wear early (2012 Santa Fe 2.4)

Not listed for MY2015

Connecting-rod bearings can wear early and damage the engine. Free inspection, engine replacement if damaged, and knock-sensor (KSDS) software. OFFICIAL [10]

20V-750 · Engine compartment fire (2012–2013 Sorento, 2012–2013 Forte / Koup, 2012 Sportage)

Not listed for MY2015

An engine-compartment fire can occur while driving. Dealers inspect for fuel and oil leaks, test the engine, repair or replace it free and update the KSDS software. OFFICIAL [10]

EVERY RECALL NHTSA LISTS FOR THE 2015 HYUNDAI SONATA (8)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
17V-359	Parking brake warning light	If the parking brake indicator is not illuminated when the parking brake is applied, the driver may operate the vehicle with the parking brake partially engaged, increasing the risk of a crash. Details
16V-726	Sunroof glass	If the sunroof detaches from the vehicle it could become a road hazard, increasing the risk of a crash. Details
16V-232	Air bags · driver frontal	An air bag that does not inflate increases the risk of injury. Details
15V-678	ABS warning light	If the driver is alerted there is a brake system malfunction, but not specifically with the ABS system, the driver may operate the vehicle unaware that the vehicle's brakes may lock up during hard braking, increasing the risk of a crash. Details
15V-414	Seat belts · front passenger buckle	If the front passenger seat belt cannot be latched, an occupant sitting in the front passenger seat has an increased risk of injury in the event of a crash. Details
14V-368	Brakes · front calipers	If a brake caliper fractures, brake effectiveness would be reduced, lengthening to distance required to stop the vehicle, increasing the risk of a crash. Details
14V-325	Steering · power assist wiring	The reduction of power steering assist can increase the steering effort needed, increasing the risk of a crash. Details
21V-749	Turn signals · junction box software	A turn signal that activates in the opposite direction of what was intended by the driver increases the risk of a crash. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: SONATA. Safety categories (air bags, fire, brakes, stalling, roll-away and loss of control) are listed first; listings whose NHTSA text names another engine, or an aftermarket part, go last. OFFICIAL
Left out of this list (SONATA): 14V-784 (left axle shaft) covers the 1.6L turbo Sonata only and is left out of this 2.4 sample; a VIN check would show it if it applied.

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

Manufacturer bulletins and warranty programs for this engine are cited on each weak point in section 4, where they apply.

4 · THE 3 WEAK POINTS

Each weak point, one card each

Every figure carries its source. Retailer part numbers are shown only when the retailer lists them for this chassis (LF). Left out because they apply to other models, years, engine sizes or body codes: Fuel pipe and fuel hose leaks (fire risk); High-pressure fuel pump (P0088, loss of power) on the G70 2.0T.

1 Connecting-rod bearing wear and engine seizure

Inside the range

Severity: Critical: rare, but can badly damage the engine · 5122 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 91,000 mi this car is inside the reported range (50,000–108,000 mi (middle half of 1158 owner complaints that state a mileage)), 41,000 miles past where reports start. Range: 50,000–108,000 mi (middle half of 1158 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2011–2019 Theta II 2.0T/2.4 GDI and 2010–2013 2.4 MPI (Tucson, Santa Fe); Hyundai and Kia covered the long block to 10 years/120,000 miles, and to lifetime on certain Hyundais under a settlement. Not reported as a pattern on the G70, Stinger or N cars.

WHAT FAILS OFFICIAL [2][3][4][10][13]

Machining debris and bearing wear can starve the connecting-rod bearings of oil. The bearing then knocks, spins and can seize the engine or put a rod through the block. Hyundai and Kia recalled the worst build ranges, added Knock Sensor Detection System (KSDS) software that warns the driver, and extended the engine warranty.

SYMPTOMS

- Knocking that rises with engine speed
- Check-engine light flashing with DTC P1326 and a chime (KSDS)
- Engine stalls or will not restart
- Low oil pressure light

IF IT'S LEFT TOO LONG

A spun bearing can seize the engine at speed or start an engine-compartment fire.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Make sure the KSDS software and any recall are done; stop driving at the first knock or flashing light and go to a dealer, since many engines are still covered.

ESTIMATED REPAIR COST

KSDS software update free (Hyundai campaign 953 / Kia PI1802)	**Free if covered** OFFICIAL [4][5] independent shop, installed
Owner-reported repair bills in NHTSA complaints (n=564)	**$1,400–$8,000** COMPUTED FROM NHTSA DATA [1] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

Where the numbers come from: Computed from 564 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $5,670). Examples: ODI 11687676, 11448340, 11244886, 10894733. Owner-reported, often dealer prices; not shop quotes. Out-of-pocket only when the VIN is outside the extended engine coverage (10 yr/120k Hyundai long block; 10 yr/120k Kia short block on 2011–2014 Optima; lifetime on certain Hyundais; 15 yr/150k on 2010–2013 Tucson 2.4 MPI).

PARTS FOR LF

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- KSDS software update done?
- Engine ever replaced under recall or warranty?
- Any knocking or flashing check-engine light?

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2 Excessive oil consumption

Inside the range

Severity: High: overheating, stalls, limp mode or a big bill · 1816 mentions in counted NHTSA complaints COMPUTED FROM NHTSA DATA

At 91,000 mi this car is inside the reported range (65,000–105,000 mi (middle half of 374 owner complaints that state a mileage)), 26,000 miles past where reports start. Range: 65,000–105,000 mi (middle half of 374 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2011-on Theta II 2.4 GDI and 2.0T; more than 1 quart per 1,000 miles is excessive per the bulletin

WHAT FAILS OFFICIAL [7]

Some engines burn oil. Kia's bulletin runs a 1,000-mile oil consumption test, then cleans carbon from the combustion chambers, and fits new piston rings if the engine still uses more than 1 quart per 1,000 miles. Low oil speeds up the bearing wear these engines are known for.

SYMPTOMS

- Oil level low between changes
- Blue smoke at start-up
- Oil light on

IF IT'S LEFT TOO LONG

Running low on oil can wipe the rod bearings and destroy the engine.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Check the oil at every fill-up; ask for the dealer oil consumption test while under warranty.

ESTIMATED REPAIR COST

Labor only, 2.5 h Kia warranty time	**$250–$400** OUR ESTIMATE [7][12] labor only, parts extra
Labor only, 5.8–5.9 h Kia warranty time plus piston rings	**$580–$940** OUR ESTIMATE [7][12] labor only, parts extra
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

2.3× The failure-bill midpoint ($760) is about 2.3× the early-fix midpoint ($325). A cost ratio, not a probability.

Where the numbers come from: Early: Estimate: Kia warranty labor time of 2.5 h (bulletin [7]) × $100–$160/h independent-shop labor rate [12]. Parts are extra unless stated; check the VIN for open warranty coverage first. If it fails: Estimate: Kia warranty labor time of 5.8–5.9 h (bulletin [7]) × $100–$160/h independent-shop labor rate [12]. Parts are extra unless stated; check the VIN for open warranty coverage first.

PARTS FOR LF

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- How much oil is added between changes?
- Any oil consumption test done?

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3 Fuel pump filter housing crack (P1233, reduced power, no start)

Past the range

Severity: Medium: leaks and wear · 364 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

At 91,000 mi this car is past the reported range (16,000–79,000 mi (middle half of 16 owner complaints that state a mileage)). If the original parts are still fitted, have them checked and plan for them. Range: 16,000–79,000 mi (middle half of 16 owner complaints that state a mileage) COMPUTED FROM NHTSA DATA [1]



Applies to: 2015–2019 Sonata and 2016–2020 Optima (US built); covered to 15 years / 150,000 miles

WHAT FAILS OFFICIAL [8][9]

The fuel pump filter housing in the tank can crack and leak internally, so low-side fuel pressure drops. The car loses power or will not start, with DTC P1233. Hyundai and Kia extended coverage on the part.

SYMPTOMS

- Reduced engine power
- Crank but no start
- Check-engine light with P1233

IF IT'S LEFT TOO LONG

The car can lose power in traffic or leave the owner stranded.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Free at a dealer inside the 15-year / 150,000-mile window; check the VIN first.

ESTIMATED REPAIR COST

Free under 23-FL-004H / WTY028 (15 yr / 150k mi)	**Free if covered** OFFICIAL [8][9] independent shop, installed
Owner-reported repair bills in NHTSA complaints (n=11)	**$770–$1,350** COMPUTED FROM NHTSA DATA [1] reported range for the bill after a failure
Dealer	**Often 1.5–2× the independent-shop price** OUR ESTIMATE

Where the numbers come from: Computed from 11 NHTSA owner complaints that quote a repair bill for this problem (middle half of the bills; median $1,200). Examples: ODI 11506298, 11538023, 11556499, 11475755. Owner-reported, often dealer prices; not shop quotes.

PARTS FOR LF

- Ask your parts supplier for the OE part number for this VIN.

WHAT TO ASK YOUR SHOP

- Any loss of power or no-start?
- Fuel filter replaced under the extension?

5 · ALSO REPORTED, NOT RANKED

Other themes in 2.0T / 2.4L Theta II GDI owner complaints

Every NHTSA complaint theme with 10 or more counted reports is either a weak point above or explained here.

THEME	COMPLAINTS	WHY IT ISN'T A WEAK POINT
Steering	4,282	Electric power-steering complaints on these cars; not an engine fault.
Stalling / loss of power	4,216	Most stalls in the text are engine failures (rod bearings) or the fuel pump filter; some are other causes.

6 · BUYING OR SELLING

Used-car checklist and resale helper

For owners this is a resale checklist: it's what a careful buyer will ask.

Ask the inspecting shop to check

- Rod knock at warm idle
- Scan for P1326 (KSDS)
- Oil level and burning
- Fuel smell at the fuel lines

Ask the seller

- KSDS update (campaign 953 / PI1802) done?
- Engine replaced? Fuel-pipe recall done after it?
- Oil added between changes?

Documents to request

- Dealer service-history printout for the VIN
- nhtsa.gov/recalls screenshot

WHAT A BUYER MAY DEDUCT

FINDING	ESTIMATED ADJUSTMENT
Connecting-rod bearing wear and engine seizure: fault found on inspection	$1,400–$8,000
Excessive oil consumption: symptoms or fault codes present	$250–$400 + parts
Fuel pump filter housing crack (P1233, reduced power, no start): fault found on inspection	$770–$1,350
Pre-ticked rows (●), if no records clear them	**None at this mileage**

● = expected at this mileage. Estimated repair costs, not an appraisal. Recalls cost the seller nothing: ask for open recalls to be completed rather than discounted. OUR ESTIMATE

7 · METHOD AND SOURCES

How this report is built

Inputs. VIN, model year, model, mileage and build month (if entered). Model and engine are checked with NHTSA's vPIC decoder.

Mileage positions. Below: more than 10,000 miles before the reported range. Approaching: within 10,000. Inside: in the range, or past the start of an open-ended range. Past: beyond the top of the range. These bands are our rules, not an industry standard.

The plan. Critical items inside or past their range go first; high-severity items follow, and jobs that share labor are bundled. At most three jobs land in “Recommended now”. Leaks that are cheap to watch are fixed on condition; inspections are asked for at each service.

Costs. Published independent-shop ranges from shop quotes, retailer prices and owner reports. The worst-case cost of every item failing is not shown: it isn't an expected cost.

Labels. `OFFICIAL` NHTSA/Hyundai documents · `SHOP/RETAILER` parts prices and shop articles · `FORUM/BLOG` owner forums and blogs · `COMPUTED FROM NHTSA DATA` our analysis of NHTSA data · `OUR ESTIMATE` ours.

NHTSA complaint data. Pulled Oct 28, 2026 from NHTSA's complaints API for All 2011–2019 Sonata, 2013–2018 Santa Fe Sport, 2019–2020 Santa Fe, 2011–2020 Optima, 2011–2022 Sportage, 2010–2013 Forte / Koup / Forte5 and Veloster N, Elantra N and Kona N complaints; 2010–2021 Tucson and 2010–2012 Santa Fe complaints that mention the 2.4L or four-cylinder; 2011–2020 Sorento complaints that do not mention the V6; G70 and Stinger complaints that mention the 2.0. Filtered nameplates under-count. Hybrids are reported under separate names and are not included. The 2019 Veloster N file holds every 2019 Veloster complaint, so for that year only complaints that name the N or 2.0T are kept: 29,564 complaints. Some of these nameplates were sold with other engines too. For some we kept only complaints whose text names this engine (which under-counts); for others we left out complaints that name another engine or a hybrid (so a few about other engines can remain). Themes are keyword matches on the complaint text.
`COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Engine knock / seizure / failure	5,122	Item 1
Steering	4,282	Also reported
Stalling / loss of power	4,216	Also reported
Engine fire / fuel leak	2,311	Other years or engine sizes
Oil consumption	1,816	Item 2
Knock sensor / KSDS / P1326	844	Item 1
Fuel pump / P1233	364	Item 3

Limits: complaints are self-reported and not adjusted for cars sold; keyword matching over- and under-counts; owners rarely file safety complaints about oil seeps, so leaks look rarer than they are.

SOURCES

1. NHTSA owner complaints for 2011–2019 Sonata, 2013–2018 Santa Fe Sport, 2010–2012 and 2019–2020 Santa Fe (four-cylinder), 2010–2021 Tucson (2.4L), 2011–2020 Optima, 2011–2020 Sorento (four-cylinder), 2011–2022 Sportage, 2010–2013 Forte, 2019–2023 G70 2.0T, 2018–2021 Stinger 2.0T and the Veloster N, Elantra N and Kona N, pulled Oct 27–28, 2026 (ODI numbers in the cost notes) OFFICIAL
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Hyundai 19-01-005H-1: 2.4L / 2.0L Turbo engine warranty extension (TXXC): engine long block to 10 years / 120,000 miles (2019-10-28), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2019/MC-10167269-0001.pdf

3. Hyundai 22-EM-001H-1: Engine warranty extension (TXXI): Limited Lifetime Warranty for connecting-rod bearing damage on certain Theta II 2.0T/2.4 GDI vehicles (class settlement) (2022-04-15), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2022/MC-10211673-0001.pdf

4. Hyundai 19-01-002H-4: Engine monitoring logic product improvement (Service Campaign 953, Knock Sensor Detection System) (2019-10-28), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2019/MC-10167767-9999.pdf

5. Kia PI1802 Rev 12: Knock Sensor Detection System (KSDS) ECU logic improvement, Optima, Sportage, Sorento (2020-08-04), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2020/MC-10179250-0001.pdf

6. Kia Warranty Bulletin 2016-09 (WTY004): 2011–2014 Optima 2.4L GDI / 2.0T engine short block warranty extended to 10 years / 120,000 miles (2016-06-30), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2016/MC-10094572-5448.pdf

7. Kia ENG222 Rev 8: Excessive oil consumption, Nu/Gamma/Theta/Kappa engines (oil consumption test, combustion chamber cleaning, piston rings) (2025-04-03), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11017109-0001.pdf

8. Hyundai 23-FL-004H: 2015–2019 Sonata: fuel pump filter warranty extension to 15 years / 150,000 miles (DTC P1233, reduced power, no start) (2023-06-29), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2023/MC-10238401-0001.pdf

9. Kia TSB FUE061 Rev 1 (WTY028): 2016–2020 Optima: fuel pump filter inspection/replacement, coverage 15 years / 150,000 miles (2022-10-31), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2022/MC-10225574-0001.pdf

10. NHTSA recall records: 15V-568, 17V-224, 17V-226, 21V-727 and 20V-746 (connecting-rod bearing wear / engine replacement) and 20V-750 (Kia engine fire), checked Oct 28, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=17V224000

11. NHTSA recall records: 18V-907, 18V-934 (high-pressure fuel pipe after engine replacement), 20V-100, 20V-121, 22V-093 and 22V-312 (low-pressure fuel hose), checked Oct 27, 2026 OFFICIAL
https://www.nhtsa.gov/recalls?nhtsaId=20V121000

12. Tekmetric: average auto repair labor rates by state, 2026 (national average $132/h; state averages $85–$197/h). We use $100–$160/h for labor-time estimates. SHOP/RETAILER
https://tours.tekmetric.com/answers/average-auto-repair-labor-rates-by-state-2026

13. Hyundai 22-EM-006H-1: Engine warranty extension (TXXM): connecting-rod bearing damage covered to 15 years / 150,000 miles on certain 2010–2013 Tucson and 2010–2012 Santa Fe with the Theta II 2.4L MPI (2022-04-28), filed with NHTSA OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2022/MC-10211675-0001.pdf

14. Genesis Warranty Extension Z05G retailer notification (TSB 25-FL-002G): High-pressure fuel pump replacement, 2019–2023 G70 with the Theta 2.0T: 15 years / 150,000 miles from first use (2025-02-04), filed with NHTSA, read Nov 10, 2026 OFFICIAL
https://static.nhtsa.gov/odi/tsbs/2025/MC-11014139-0001.pdf

This report contains no affiliate links; retailer prices are quoted as price sources only. Found an error? Email hello@repairahead.com.

PLEASE READ

Important

Based on public records and published repair costs. Not a diagnosis or a guarantee. Your technician's inspection decides what your car needs. Confirm recalls with a dealer using your VIN.

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Reported ranges and estimates, not predictions

Failure mileages are reported ranges compiled from public owner complaints, manufacturer bulletins, recalls and repair-shop reports. Costs are estimates. Parts can fail earlier, later or not at all, and other problems can occur. Statistics from owner complaints describe past reports to NHTSA; NHTSA has not reviewed or endorsed this analysis.

Safety issues go to a dealer

If you notice overheating, a burning or fuel smell, smoke, a brake-assist problem, stalling or loss of power, pull over when it's safe and contact a Hyundai dealer or qualified shop. Safety recall repairs are free at Hyundai dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

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