LEONARDO AW109SP GRANDNEW Model Guide

LEONARDO AW109SP GRANDNEW is a Leonardo twin-engine helicopter. The registry lists the AW109SP family as turboshaft, carrying up to 8 passengers. The documents reviewed are an inlet barrier filter flight manual supplement and a 2024 maintenance due list for one airframe. Check every figure against the aircraft's own manual and logs.

KEY TAKEAWAYS

- The registry lists the AW109SP family as turboshaft, up to 8 passengers. The library label 'single-engine-piston' conflicts with the documents.
- The example airframe had two PW207C engines. Check engine hours, cycles and power assurance trend records.
- The sample due list had open mandatory items: main rotor elastomeric bearing inspections and EASA ADs 2022-0037 and 2023-0159.
- If an inlet barrier filter is fitted, confirm the STC supplement is in the flight manual and the filter indicators work.

FAMILY-LEVEL CAPABILITY

Registry data for the AW109SP family shows up to 2800 kg MTOW, up to 8 passengers, cruise up to 126 kt, range up to 360 nm and service ceiling up to 20000 ft. These are family maxima, not guaranteed for this exact aircraft. Confirm against the flight manual and the weight-and-balance record.

EXAMPLE AIRFRAME MAINTENANCE STATUS

A due list for serial 22294 (certified 08-APR-2013) showed 1446.5 airframe hours as of 23-Jan-2024, with both PW207C engines also at 1446.5 hours. Upcoming items included an 800 hour inspection due 02-May-2024 and a 12 month inspection due 23-Sep-2024. Ask for the current due list on any aircraft you consider.

INLET BARRIER FILTER (IBF) SUPPLEMENT

The FAA-approved supplement covers the AFS inlet barrier filter on A109E, A109S and AW109SP. Maximum operating pressure altitude with it is 15000 ft, and the bypass doors should be open above 10000 ft in cruise. A hover power assurance check needs at least +5°C TOT margin. Category A operations are permitted with a daily power assurance check.

SPECIFICATIONS

Family Max Mtow Kg	2800
Family Max Passengers	8

PERFORMANCE

Family Max Range Nm	360
Family Max Cruise Speed Kt	126
Family Max Service Ceiling Ft	20000
Ibf Max Operating Altitude Ft	15000
Ibf Bypass Doors Open Above Ft	10000

SAFETY NOTES

- With the IBF fitted, the hover power assurance check must show at least +5°C TOT margin. If it does not, clean the filters, recheck, then call maintenance.
- Avoid dirty or dusty operation with an IBF bypass door open, because it can erode the compressor.
- Do not step on or place items on IBF filter elements. Damaged pleats reduce filtering.

AI-aggregated guide for the LEONARDO AW109SP GRANDNEW · sources: Rotorcraft Flight Manual Supplement for Inlet Barrier Filter System Installation (#102567) · DueList Report (#100816) · generated 2026-10-21 · Reference only, not for flight. Check the original documents before relying on this guide.