

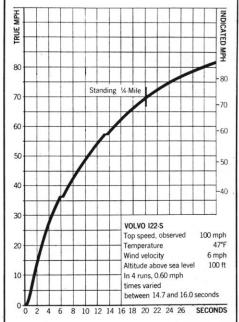
VOLVO 122-S

Importer: Volvo Inc. Rockleigh, New Jersey

Price as tested: \$2630 POE East Coast

ACCELERATION

Zero to		Seconds
30 mph		4.3
40 mph		/.0
50 mph		10.2
60 mph		14.9
70 mph		20.2
80 mph		28.0
90 mph	<u></u>	45.0
Standing ¼-m	ile70 mp	n in 20.2



ENGINE

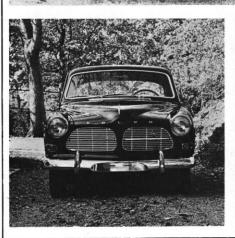
LINGINE
Water-cooled four-in-line, cast iron block, 5 main bearings
Bore x stroke3.31 x 3.15 in, 84.14 x 80 mm
Displacement108.6 cu in, 1780 cc Compression ratio8.5 to one
Carburetion
Power (SAE)90 bhp @ 5000 rpm
Torque
50.5 bhp per liter Usable range of engine speeds 1000-6000 rpm
Electrical system. 12-volt, 60 amp-hr battery, 360 W generator
Fuel recommendedPremium
Mileage

DRIVE TRAIN

			nch single dr all-synchro g	gearbox
		1000	mph/1000	Max
Gear	Ratio	Over-all	rpm	mph
Rev	3.25	13.15	-5.9	-35.5
1st	3.13	12.80	6.2	37.2
	1.99	8.16	9.7	58.0
			13.9	84
				100
2nd 3rd 4th	1.99 1.36 1.00 rive ratio.	8.16 5.58 4.11	9.7 13.9 19.2 4.11	84 100

CHASSIS

Unit construction, all-steel body
Wheelbase 102.5 in
Wheelbase 102.5 in Track F 51.5 R 51.5 in
Langth 175 in
Length175 in
Width64 in
Height59 in
Ground clearance
Dry weight
Curb weight
Test weight
Weight distribution front/rear53/47 %
Pounds per bhp (test weight)29.7
Suspension: F Ind., unequal-length wishbones
and coil springs, stabilizer bar
R Rigid axle, radius arms and
torque rods, coil springs, pan-
hard rod
BrakesGirling 10.85-in discs front,
9-in drums rear, 339 sq in swept area
Observed will a seek and roller
SteeringCam and roller
Turns, lock to lock
Turning circle
Tires5.90-15
Revs per mile830





CHECK LIST

	ENGINE
	StartingGood
	ResponseFair
	NoiseFair
	ENGINE Starting Good Response Fair Noise Fair Vibration Good
1	

DRIVE TRAIN

Clutch action	Good
Transmission linkageVe	ry good
Synchromesh action E	xcellent
Power-to-ground transmission	Good

BRAKES

Response	Excellent
Pedal pressure	
Fade resistance	Excellent
Smoothness	Good
Directional stability	Excellent

STEERING

Response	
	Very good
	Very good

SUSPENSION

Harshness controlVe	ery good
Roll stiffness	Good
TrackingVe	
Pitch controlVe	
Shock damping	Fair

CONTROLS

Location	Excellent
Relationship	Very good
Small controls	Very good

INTERIOR

Visibility	Good
Instrumentation	Poor
Lighting	Good
Entry/exit	
Front seating comfort	
Front seating room	Excellent
Rear seating comfort	Very good
Rear seating room	Very good
Storage space	Excellent
Wind noise	
Road noise	Good

WEATHER PROTECTION

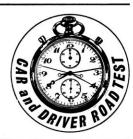
Heater Excellent
DefrosterVery good
VentilationGood
Weather sealing Excellent
Windshield wiper action

QUALITY CONTROL

Materials, exterior	Excellent
Materials, interior	Very good
Exterior finish	
Interior finish:	Excellent
Hardware and trim	Excellent

GENERA

GENERAL	
Service accessibility Ex	xcellent
Luggage spaceVe	ry good
Bumper protectionVe	
Exterior lightingVe	ry good
Resistance to crosswinds	



VOLVO 122-S

A rugged, proved performer that even the toughest critics find difficulty in faulting

Automotive journalism can be a disillusioning business. After years of dewy-eyed enthusiasm, a newcomer arrives in the Car and Driver office, only to discover that most of what he believed to be gospel about cars is patent nonsense.

With barrages of new information and qualified opinion pummeling him from all sides, a fair number of his sacred cows are destroyed and he suddenly realizes that *truly* good automobiles are as rare as black pearls. One of the few vehicles that survives under this ruthless criticism, without getting torn apart for being over-priced, poorly-made, stupidly-designed or outdated, is the Volvo 122-S. In this sense the Volvo belongs to a very select group. Automotive journalists are hyper-critical, yet you'll travel a fair distance before you find a professional who won't agree that the pride of Göteborg, Sweden isn't one of the best cars in the world and one of the biggest bargains in history.

The Volvo 122-S is not the prettiest car known to man, nor is it the fastest. But it may be the strongest. "Car of the Year" awards and "The World's Seven Best-built Cars" notwithstanding, the Volvo is possibly the toughest vehicle anywhere this side of the Aberdeen Proving Grounds and there is a growing legion of happy owners in the United States who will be glad to verify the point. This ruggedness is backed up by an alert, aggressive sales and service organization that rivals the Volkswagen setup for efficiency.

It has been storied that various Detroit manufacturers have spent large sums of money to make car doors slam shut with the solid, reassuring sound of quality. It is doubtful whether it involves anything intentional, but shutting a Volvo door sounds like about eight-and-one-half million dollars. This is symbolic of the entire Volvo body, which utilizes an all-welded unit construction of immense rigidity. The body metal is phosphated, giving it a slightly etched surface that enables the paint to cling more effectively. Anti-corrosive oil and undercoating are used liberally throughout the assembly process. Extra effort like this means a definite increase in the Volvo's resistance to the elements, especially to moisture and salt.

Volvo's B-18 4-cylinder engine may be the closest thing to an unbreakable production powerplant ever developed. It is a straightforward in-line, overhead valve, slightly oversquare layout that, like the rest of the vehicle, has undergone years of painstaking refinement. Aware that bottom-end strength is the key to really long engine life, Volvo's 1800cc engine has an exquisitely rigid five-main bearing crankshaft and

enough total bearing surface for a powerplant three times its size. For example, the new, five main-bearing BMC 1800cc engine has a total bearing surface area (including main and rod bearings) of 24.2 sq. in., while the same displacement Volvo has 42.8 sq. in! At the other end of the scale, the very strong Chevrolet 327 has 30.23 sq. in. and the old Chevy 409 has 41.02 sq. in.—both less than the Volvo!

Fitted with a pair of SU carburetors and operating with a compression ratio of 8.5:1, the B-18 is delivered in the 122-S with what seems to be a conservatively-rated 90 hp. The engine is highly flexible, easy to start and reasonably silent for a pushrod four-cylinder. It is one of the few engines that can be revved to valve float and beyond without damage. Brave souls have found that the B-18's valve action begins to get confused at about 6300 rpm, but will smooth out again at approximately 6500 rpm. That this can be done without immediate danger of bursting the works is a testimonial to the engine's strength.

The 122-S we tested was the four-door model, which has been imported since 1959. The similar two-door model was introduced here in 1963 and both remain essentially unchanged for 1965. The excellent four-speed all-synchro transmission with the long shift lever, and the beefy front disc brakes remain, as does the general feeling of soundness and quality of previous years.

The big changes come in the form of different wheels, with larger vents, a slightly larger pair of front grilles, and most important, super-adjustable seats. There is a diminishing, but still vocal group of so-called automotive pundits which maintains that a seat must be as firm as an oak board to be comfortable. Volvo apparently subscribed to this theory and their seats tended to be rather brutal on the back and shoulders during long trips. Additionally, the vinyl covering, though as durable as rhinocerous hide, did not breathe and caused nasty cases of prickly heat and other maladies resulting from Torrid Zone posterior temperatures. Both problems have been cured on the new models. The seat covering is now textured so that some ventilation exists and the frames have been fitted with no less than seven adjustment points so that anyone but an ape or a midget can fit behind the perfectlypositioned steering wheel. A screwdriver is needed to do the job, but one nevertheless can adjust the bulge in the seat for small-of-the-back support and that marks some sort of "first" in the science of driver comfort. Our taller staff members still complained about a lack of shoulder support on the new seats, but they should be satisfactory for people of average height. Volvo has also added new heater ducting to the rear seat-and that's a constructive step, though even the old setup could turn the entire interior into a Bessemer converter at will and we wonder why Volvo felt it needed improvement.

The Volvo's initial reputation was made from its giant-killer performance and that characteristic remains today. The car will accelerate to 60 mph in 15 seconds, has *usable* speeds to 90 and will carry four passengers and luggage in solid comfort at 75 mph for hours on end. It will corner with any sedan of its size and weight and will probably out-brake most of the competition.

When we consider that this car can be purchased with a fair number of options for less than \$3000 and at that price will outperform most and outlast anything that can be considered remotely competitive, you better believe that you are getting one helluva automobile for one helluva bargain. Unfortunately, there are precious few makes that share that distinction. **CID**

