

CAMS

5TH CATEGORY - HISTORIC RACING

GROUP Na/Nb/Nc

APPROVED VEHICLE SPECIFICATION

This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current CAMS Manual of Motor Sport.

Make of Car: Volvo

Model: 122/ Amazon

Period of Original Manufacture: 1956/1970*

CAMS Historic Group: Na/Nb/Nc (Dependent upon year model)

Date of Issue of this Document: 16th April 2004

- * Introduced 1956 - B16 Engine
- 1961 - B18 Engine (Disc front brakes)
- 1969 - B20 Engine



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:	Unitary Construction	Period of Manufacture:
Manufacturer:	Volvo	1956 - 70
Chassis no. from:		
Chassis no. location:	Bulkhead – Engine Bay	
Material:	Steel	
Comments:		

1.2 FRONT SUSPENSION

Description:	Independent – Upper & Lower Wishbones	
Spring medium:	Coil	
Damper Type:	Telescopic	Adjustable: Permitted
Anti-sway bar:	Fitted	Adjustable: No
Suspension adjustable:	No	Method:
Comments:		

1.3 REAR SUSPENSION

Description:	Live Axle – Trailing Arms	
Spring medium:	Coil	
Damper type:	Telescopic	Adjustable:
Anti-sway bar:	Not Fitted	Adjustable:
Suspension adjustable:	No	Method:
Comments:		

1.4 STEERING

Type:	Cam & Roller	Make: Volvo
Comments:		

1.5 BRAKES

	Front	Rear
Type:	Drum(to 1961) Disc (from 1961)	Drum
Dimensions:	Drum 294mm–Disc 276mm	294mm
Material of drum/disc	Cast Iron	Cast iron
No. cylinders/pots per wheel:	2	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	Volvo – Cast Iron	
Master cylinder make:	Volvo	Type: Tandem
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Dual Master Cylinders Permitted.	

SECTION 2 - ENGINE

2.1 ENGINE

Make: Volvo
Model: B16/B18/B20
No. cylinders: 4
Cylinder Block-material: Cast Iron
Bore - Original: 79.37/84.14/88.9mm
Stroke - original: 80mm
Capacity - original: 1582/1780/1986cc
Cooling method: Water

Configuration: In Line
Two/Four Stroke: 4 Stroke
Max. allowed: 80.87/ **/ 90.4mm
Max. allowed: 80/ **/ 80mm
Max. allowed: 1642/**/2052cc

Identifying marks:

Comments: ** For Nb cars, refer engine regulations related to capacity increase.

2.2 CYLINDER HEAD

Make: Volvo
No. of valves/cylinder- Inlet: 1 Exhaust: 1
No. of ports total: 8 Inlet: 4 Exhaust: 4
No. of camshafts: 1 Location: Block Drive: Gear
Valve actuation: Pushrod

Spark plugs/cylinder: 1

Identifying marks:

Comments:

2.3 LUBRICATION

Method ((Wet/Dry Sump): Wet Sump
Dry sump pump type:
Oil cooler standard (Yes/No): No
Comments: Oil Cooler Permitted

Oil tank location:
Location (If Appl.):
Location (If Appl.):

2.4 IGNITION

Type: Coil & Distributor
Make: Bosch

Comments:

2.5 FUEL FEED (Induction)

Carburettor/s : Fuel Inj'n :
Make : SU **Make :**
Type/Model : H or HS **Type/Model :**

No. Fitted : 2 **S/Charged (Yes/No):**
Size : **Make (If Applic.):**

Comments: Carburettors may be replaced by others of period type, limited to a maximum of one choke per cylinder.

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Volvo **Type:** Diaphragm **Diameter:** 216mm
No. of Plates: 1
Method of Actuation : Hydraulic
Comments Clutch and method of actuation are free

3.2 TRANSMISSION

Type: 4 Speed Synchro. (O/D Optional)
Make: Volvo (O/D Laycock) **Model:**
No. forward speeds: 4 (+O/D if fitted) **Gearbox location:** Behind Engine
Gearchange type and location: Floor - Direct
Case material: Cast iron **Identifying marks:**
Comments:

3.3 FINAL DRIVE

Make: Volvo **Model :** Amazon
F/R/All Wheel Drive: Rear
Ratios: Free
Differential Type : Hypoid Bevel **Make:** Volvo
Comments: LSD Permitted

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to Final Drive
Description: Tailshaft with Universal Joints
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Pressed Steel	Material: Original:	Steel
Allowed:	Steel or Period Alloy	Allowed:	Steel or Alloy
Fixture method:	Bolt On	No. studs:	5
	FRONT		REAR
Wheel dia. & rim width	4 x 15		4 x 15
Original:			
Allowed:	5x15(Na) 6 x15(Nb) 7 x 15(Nc)		5 x 15(Na) 6 x 15Nb) 7 x 15 Nc)
Tyre Section			
Allowed:			
Min. Asp.Ratio Allowed :	65% (Na) 60% (Nb/c)		65%(Na) 60% (Nb/c)
Comments:			

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear **Capacity:** 45 Litres
Fuel pump, type and location: Mechanical **Make:**
Comments:

4.2 ELECTRICAL SYSTEM

Voltage: 12 **Dynamo/Alternator fitted:**
Battery Location: Engine Bay **Either- dependant upon model**
Comments:

4.3 BODYWORK

Type: 2 or 4 Door Saloon **Material:** Steel
No. of seats: 4 **No. doors:** 2 or 4
Comments:

4.4 DIMENSIONS

Track - Front: 1315mm **Rear:** 1315mm
Wheelbase: 2600mm **Overall length:** 4450mm
Dry weight: 1013kg
Comments:

4.5 SAFETY EQUIPMENT

Fire extinguisher required: Refer Schedule H
Seat belt required: Refer Schedule J
Rollbar required: Refer Schedule J and Art.3 General Regulations
Electrical cut off switch required: Required
Safety fuel tank optional/required: Optional

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