

CAMS

5TH CATEGORY - HISTORIC RACING

GROUP 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:** 164

Period of Original Manufacture: 1968 - 1972

CAMS Historic Group: Nc

Date of Issue of this Document: 25th March 2004



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description: Unitary Construction **Period of Manufacture:** 1968/1972
Manufacturer: AB Volvo
Chassis no. from: 52790 >>>
Chassis no. location: Bulkhead
Material: Steel
Comments:

1.2 FRONT SUSPENSION

Description: Independent – Wishbone
Spring medium: Coil
Damper Type: Telescopic **Adjustable:** Optional
Anti-sway bar: Fitted **Adjustable:** No
Suspension adjustable: Yes **Method:** Camber /Castor/Toe-In/Out
Comments: Spring Rates and Ride Height Free

1.3 REAR SUSPENSION

Description: Live Axle- Trailing Arms
Spring medium: Coil
Damper type: Telescopic **Adjustable:** Optional
Anti-sway bar: Not Fitted **Adjustable:** N/A
Suspension adjustable: No **Method:**
Comments: Spring Rates & Ride Height Free

1.4 STEERING

Type: Ball & Nut **Make:** Volvo
Comments: None

1.5 BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	272 x 24 mm	295 x 9.6 mm
Material of drum/disc	Cast Iron	Cast Iron
No. cylinders/pots per wheel:	4	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	Cast Iron	Cast Iron
Master cylinder make:	Type	Tandem
Adjustable bias:		
Servo Fitted:	Yes	
Comments:	Dual master cylinders permitted	

SECTION 2 - ENGINE

2.1 ENGINE

Make: Volvo
Model: 164
No. cylinders: 6
Cylinder Block-material: Cast Iron
Bore - Original: 88.9 mm
Stroke - original: 80 mm
Capacity - original: 2978 cc
Cooling method: Water
Identifying marks:
Comments: None

Configuration: In Line
Four Stroke
Max. allowed: 90.4 mm
Max. allowed: 80 mm
Max. allowed: 3079 cc

2.2 CYLINDER HEAD

Make: Volvo
No. of valves/cylinder- **Inlet:** 1 **Exhaust:** 1
No. of ports total: 12 **Inlet:** 6 **Exhaust:** 6
No. of camshafts: 1 **Location:** Block **Drive:** Gear
Valve actuation: Pushrod
Spark plugs/cylinder: 1
Identifying marks:
Comments: None

2.3 LUBRICATION

Wet / Dry Sump Wet Sump **Oil tank location:** N/A
Dry sump pump type: N/A **Location:** N/A
Oil cooler standard? No **Location:** N/A
Comments: Oil Cooler Permitted

2.4 IGNITION SYSTEM

Type: Coil & Distributor
Make: Bosch
Comments: Modifications permitted. Refer Art. 4.5 Group Nc Regulations

2.5 FUEL SYSTEM

Carburettor: Make: SU **Model:** HS6
Fuel injection Make: N/A **Type:** N/A
Supercharged: No **Type:** N/A
Comments: Modifications permitted . Refer Art. 5 Group Nc Regulations

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Volvo **Type** Diaphragm **Diameter:** 240 mm
No. of Plates: 1
Actuation: Cable
Comments: Clutch & method of actuation free

3.2 TRANSMISSION

Type: 4 Speed Synchromesh
Make: Volvo M400
No. forward speeds: 4 **Gearbox location:** Behind Engine
Gearchange type and location: Floor Remote
Case material: **Identifying marks:**
Comments: Ratios Free

3.3 FINAL DRIVE

Make: Volvo **Model:** 164
Wheel drive method: Rear
Ratios: Various
Differential: Free- Hypoid **Type:**
Comments: Limited slip differential permitted

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to Final Drive
Description: Tailshaft with Universal Joints
Comments: None

3.5 WHEELS & TYRES

Wheel type: Original:	Pressed Steel	Material:
		Original: Steel
		Allowed: Steel or Alloy
Fixture method:	Period Alloy Bolt On	No. studs: 5
	FRONT	REAR
Wheel dia. & rim width		
Original:	5.5 x 15	5.5 x 15
Allowed	7 x 15	7 x 15
Tyre Section:		
Original:	185 x 15	185 x 15
Allowed		
Aspect ratio - minimum:	60%	60%
Comments:		

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear Capacity: 58 Litres
Fuel pump, type and location: Mechanical Make: Volvo
Comments: Fuel pump/s free

4.2 ELECTRICAL SYSTEM

Voltage: 12 Alternator fitted
Battery Location: Engine Bay
Comments: None

4.3 BODYWORK

Type: 4 Door Sedan Material: Steel
No. of seats: 5 No. doors: 4
Comments: None

4.4 DIMENSIONS

Track - Front: 1350 mm Rear: 1350 mm
Wheelbase: 2720 mm Overall length: 4700 mm
Dry weight: 1370 Kg
Comments:

4.5 SAFETY EQUIPMENT

Fire extinguisher: required Refer Schedule H
Seat belt: required Refer Schedule I
Rollbar :required Refer Schedule J & Group
Nc Regulations
Elect. cut off switch: required
Safety fuel tank: optional