

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:

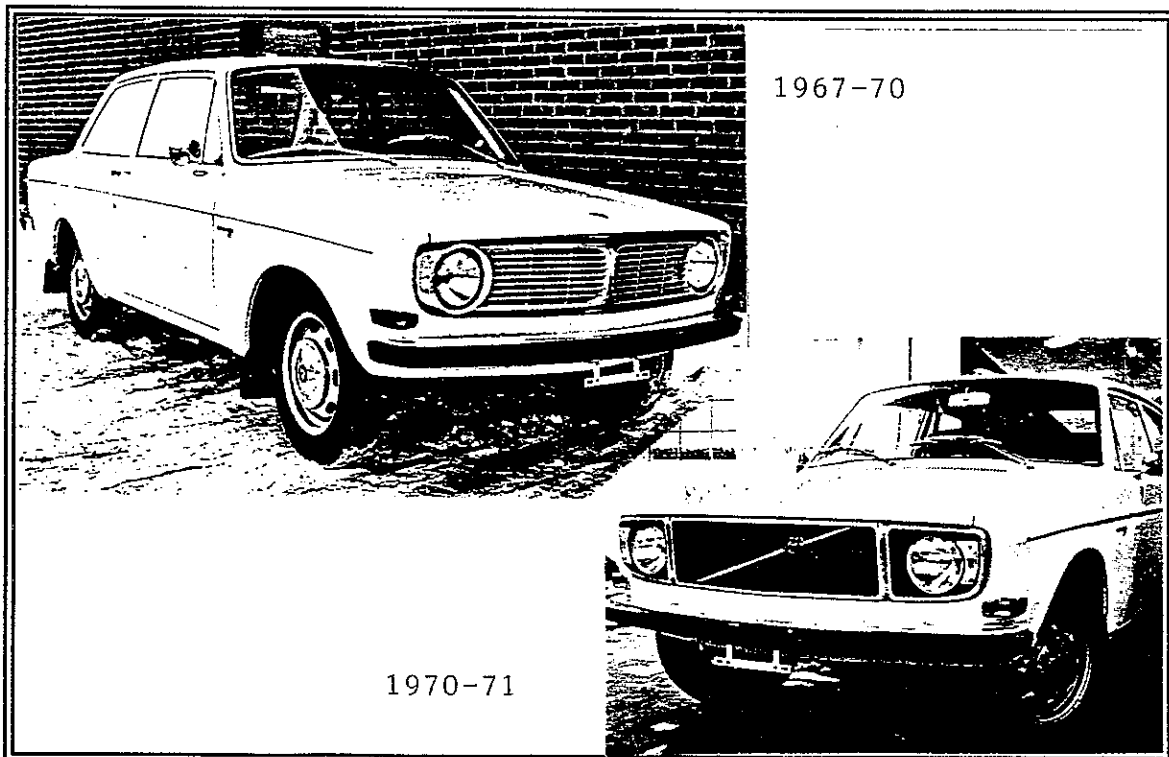
140 Series
(142S/144S)

Period of Original Manufacture: 1967 - 71

CAMS Historic Group:

Nc

Date of Issue of this Document: 1 July 1999



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description: Unitary Construction **Period of Manufacture:** 1967 - 1971

Manufacturer: A.B. Volvo

Chassis no. from: (Prefix) 1423342..../1443342....

Chassis no. location: Firewall

Material: Mild steel

Comments:

1.2 FRONT SUSPENSION

Description: Independent - Wishbones

Spring medium: Coil

Damper Type: Telescopic **Adjustable:** Optional

Anti-sway bar: Fitted **Adjustable:** No

Suspension adjustable: No **Method:** N/A

Comments:

1.3 REAR SUSPENSION

Description: Live Axle; Coil Springs & Trailing Arms

Spring medium: Coil

Damper type: Telescopic **Adjustable:** Optional

Anti-sway bar: Not fitted **Adjustable:** N/A

Suspension adjustable: No **Method:** N/A

Comments:

1.4 STEERING

Type: Worm & Peg **Make:** Volvo

Comments:

1.5 BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	272 x 12.8	295 x 9.6
Material of drum/disc	Cast Iron	Cast Iron
No. cylinders/pots per wheel:	4	2
Actuation:	Hyd	Hydraulic
Caliper: Make, Material, Type:		
Master cylinder make: Volvo		Type: Tandem
Adjustable bias		
Servo Fitted	Yes	
Comments:		

SECTION 2 - ENGINE

2.1 ENGINE

Make: Volvo
Model: B18 & B20
No. cylinders: 4 **Configuration:** In line
Cylinder Block-material: Cast iron **Four Stroke**
Bore - Original:)84.14m)88.9m **Max. allow.:**)85.64m)90.40m
Stroke - original: B18)80.0m B20)80.0m **Max. allow.:** B18)80.0m B20)80.0m
Capacity - original:)1780cc)1986cc **Max. allow.:**)1842cc)2052 cc
Cooling method: Water
Identifying marks: B18 or B20
Comments: B20 engine introduced 1969.

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: Push Rod
Spark plugs/cylinder: 1
Identifying marks:
Comments:

2.3 LUBRICATION

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

2.4 IGNITION

Type: Coil & Distributor
Make: Volvo
Comments:

2.5 FUEL FEED

Carburettor: Make: SU **Model:** HS6 **No:** 2 **Size:** 1 3/4"
Fuel injection Make: N/A **Type:**
Supercharged: N/A **Type:**
Make:
Comments: Optional Zenith Stromberg 175CD - 2SE (x 2)

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Volvo **Type:** Dry Plate **Diameter:** 216 mm
No. of Plates: 1
Actuation: Cable
Comments:

3.2 TRANSMISSION

Type: Volvo
Make: Volvo **Model:** M40
No. forward speeds: 4 5 Optional * **Gearbox location:** Behind engine
Gear change type and location: Floor lever
Case material: Alloy/Cast Iron **Identifying marks:**
Comments: * Laycock D-Normanville Overdrive Optional giving 5th Ratio.

3.3 FINAL DRIVE

Make: Volvo **Model:**
Wheel drive method: Rear
Ratios: Various
Differential: Limited slip "power lock" **Type:** Hypoid
optional

Comments:

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to final drive
Description: Tubular two piece tailshaft with Hardy Spicer joints.
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Steel disc	Material: Original:	Steel
Allowed:	Period alloy	Allowed:	Alloy
Fixture method:	Bolt on	No. studs:	5
	FRONT		REAR
Wheel dia. & rim width			
Original:	4.5 x 15		4.5 x 15
Allowed:	7 x 15		7 x 15
Tyre section:			
Original:	165 x 15		165 x 15
Allowed:	215		215
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:
Comments:

4.2 ELECTRICAL SYSTEM

Voltage: 12 Alternator fitted:
Battery Location: Engine compartment
Comments:

4.3 BODYWORK

Type: Two door coupe Material: Steel
No. of seats: 4 No. doors: 2
Comments:

4.4 DIMENSIONS

Track - Front: 1350 Rear: 1350
Wheelbase: 2600 Overall length: 4640
Dry weight: 1120 kg (142) 1180 kg (144)
Comments:

4.5 SAFETY EQUIPMENT

Fire extinguisher required
Seat belt required
Rollbar required
Electrical cut off switch required
Safety fuel tank optional

RP:kb-volvo1425-nc.doc