

5TH CATEGORY - HISTORIC RACING
GROUP N
 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 Motorsport Australia Manual.

Make of Car:	Volvo	Model:	122 Amazon
Period of Original Manufacture:	1956 – 1970		
Motorsport Australia Historic Group:	Nb		
Date of Issue of this Document:	2 January 2024		
Comments	1956 – B16 engine 1961 – B18 engine and front disc brakes 1969 – B20 engine		



Refer to The *Manual*, Historic Appendix, Vehicle Eligibility, General Requirements & Historic Touring Cars Group N Regulations for permitted modifications.

Update Log

15/12/2022	Rear Axle modification permitted	Section 3.3 Final Drive
1/1/2024	Inclusion of kerb and minimum racing weights	
2/1/2024	Update of kerb and minimum racing weights	

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary construction
Period of Manufacture:	1956 – 1970
Manufacturer:	Volvo
Chassis Number From:	***** - *****
Chassis Number location:	Bulkhead – engine bay
Material:	Steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent – upper and lower wishbones		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	Yes	Method:	Caster, camber and toe
Comments:	Refer to Appendix A		

1.3. REAR SUSPENSION

Description:	Live rear axle		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	No	Adjustable:	No
Suspension adjustable:	No	Method:	N/A
Comments:	Refer to Appendix A		

1.4. STEERING

Type:	Cam and roller	Make:	Volvo
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc, solid	Drum
Dimensions:	276 mm x 25 mm	294 mm x 51 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	Volvo	
Caliper type:	N/A	
Material:	N/A	
Master cylinder make:	Volvo	
Type:	Tandem	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:		

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Volvo		
Model:	B16, B18		
No. cylinders:	Four	Configuration:	In line
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	84.14 mm	Max allowed:	85.6 mm
Stroke - original:	80 mm	Max allowed:	80 mm
Capacity - original:	1780 cc	Max allowed:	1843 cc
Identifying marks:	Left side of the engine block		
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Volvo		
No. of valves/cylinder:	Two	Inlet:	One
		Exhaust:	One
No. of ports total:	Eight	Inlet:	Four
		Exhaust:	Four
No. of camshafts:	One	Location:	Block
		Drive:	Gear
Valve actuation:	Pushrod and rocker		
Spark plugs/cylinder:	One		
Identifying marks:	N/A		
Comments:	None		

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:	None		

2.4. IGNITION SYSTEM

Type:	Points, distributor & coil		
Make:	Bosch		
Comments	Breakerless electronic ignition permitted		

2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	H HS
Carburettor Number:	Two		
Size:	Various		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Volvo
Type:	Diaphragm
Diameter:	216 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Synchromesh
Make:	Volvo
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Floor - direct
Case material:	Cast iron
Identifying marks:	N/A
Comments:	None

3.3. FINAL DRIVE

Make:	Volvo	Model:	Amazon
Type:	Live rear axle		
Ratios:	Various		
Differential type:	Hypoid bevel		
Comments:	The rear axle shaft may be changed to a flange type provided the PCD (Pitch Circle Diameter) of the wheel studs remains unchanged. The original wheels must be able to be fitted.		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Open tail shaft with twin uni joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Pressed disc	Material - Original:	Steel
Wheel type - Allowed:	Steel Alloy (period style)	Material - Allowed:	Steel Alloy
Fixture method:	Stud and nut	No. studs:	Five
Wheel dia. & rim width	FRONT		REAR
Original:	4" x 15"		4" x 15"
Allowed	6" x 15"		6" x 15"
Tyre Section:			
Allowed:	Refer approved tyre list.		
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	None		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear	Capacity:	45 litres
Fuel pump, type:	Mechanical on block	Make:	Volvo
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	12	Alternator fitted:	Generator
Battery Location:	Engine bay		
Comments:	None		

4.3. BODYWORK

Type:	Sedan	Material:	Steel
No. of seats:	Four	No. doors:	2 or 4 door
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1315 mm	Rear:	1315 mm
Wheelbase:	2600 mm	Overall length:	4450 mm
Approved Manufacturer's kerb weight:	2 - door – 1013 kgs 4 - door – 1013 kgs		
Approved minimum racing weight:	2 - door – 998 kgs 4 - door – 998 kgs		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix A

Group Nb must use early rear trailing arms with axle tube surround bush.

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.