

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

FISA - Transfert en Gr.A

FICHE D'HOMOLOGATION CONFORME A L'ANNEXE J DU CODE SPORTIF INTERNATIONAL
POUR LES VOITURES DES GROUPES 1 A 5

BOOK OF RECOGNITION IN ACCORDANCE WITH APPENDIX J TO THE INTERNATIONAL
SPORTING CODE FOR CARS OF GROUPS 1 TO 5

01171 16.1276

NOTA : Les pages 1 à 7 comportent toutes les indications nécessaires à la vérification technique pour les Groupes 2 et 4. Pages 1 to 8 include all necessary information for the scrutineering of cars for Groups 2 and 4.

INTERNATIONALE
Constructeur/Manufacturer Volvo Car BV Modèle / Model Volvo 343 DL 1.4
Cylindrée / Cylinder capacity 1397
Constructeur du châssis / Chassis Manufacturer Volvo Car BV
Constructeur du moteur / Engine Manufacturer Volvo/Renault
Homologation valable à partir du / Recognition valid as from 1.4.77
Modèle homologué en groupe 1 Numéro d'homologation
Model recognized in group Recognition number 5648

Photo A : voiture vue de 3/4 AV
Photo A : 3/4 view of car from front



Photo B : voiture vue de 3/4 AR
Photo B : 3/4 view of car from rear



CARACTÉRISTIQUES GÉNÉRALES / GENERAL CHARACTERISTICS :

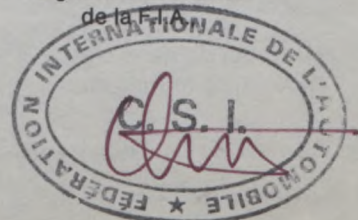
- 1) Mode de construction : ~~construction séparée~~ / monocoque.
Type of car construction : ~~separate~~ / unitary construction.
- 2) Matériau du châssis steel Matériau de la carrosserie steel
Material of chassis Material of coachwork
- 3) Empattement droit 2395 mm Gauche 2395 mm
Wheelbase right Left
- 4) Largeur de la carrosserie mesurée aux axes AV 1660 mm
Width of bodywork measured at front axle
- 5) Largeur de la carrosserie mesurée aux axes AR 1660 mm
Width of bodywork measured at rear axle
- 6) Longueur hors-tout avec pare-chocs 4204 mm Sans pare-chocs 4045 mm
Overall length with bumpers Without bumpers
- 7) Type de suspension : AV Mc Pherson AR de Dion
Type of suspension : Front Rear

(Photo D)

(Photo E)

Signature et cachet de
l'autorité sportive nationale,

Signature et cachet
de la F.I.A.



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MOTEUR :

- 8) Cycle four stroke
- 9) Nombre et disposition des cylindres
Number and disposition of cylinders four in line
- 10) Système de refroidissement
Cooling system water
- 11) Emplacement et position du moteur
Location and position of engine front of car
- 12) Matériau du bloc moteur
Material of engine block cast iron
- 13) Roues motrices : AV - AR
Drive wheels : Front - Rear rear
- 14) Emplacement de la boîte de vitesses
Location of gear-box at rear axle

CARROSSERIE ET ÉQUIPEMENT INTÉRIEUR / COACHWORK AND INTERIOR

- 20) Nombre de portes
Number of doors 2
- 21) Matériau des portes : AV
Material of doors : Front steel AR
Rear
- 22) Matériau du capot moteur
Material of bonnet steel
- 23) Matériau du capot coffre
Material of boot lid steel
- 24) Matériau de la lunette AR
Material of rear window tempered glass
- 25) Matériau du pare-brise
Material of windscreen laminated glass
- 26) Matériau des glaces des portières AV
Material of front door windows tempered glass
- 27) Matériau des glaces des portières AR
Material of rear door windows tempered glass
- 28) Système d'ouverture des vitres portières AV
Sliding system of door windows Front window winders AR
Rear
- 29) Matériau des glaces de custode
Material of rear quarter lights tempered glass
- 30) Poids siège (s) AV (enlevés de la voiture avec dossiers, glissières et supports)
Weight of front seat(s) (complete with supports and rails, out of the car) 12 kg
- 31) Matériau du pare-choc AV steel/polyurethane Poids 7.7 kg
Front bumper material Weight
- 32) Matériau du pare-choc AR steel/polyurethane Poids 7.9 kg
Rear bumper material Weight
- 33) Ventilation : oui ~~non~~ / yes ~~no~~



DIRECTION / STEERING

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- 40) Type rack and pinion
 41) Servo-assistance no

SUSPENSION

- 45) Suspension AV (photo D) Type de ressort (individual) coil springs
 Front suspension (photo D) Type of spring
 46) Nombre d'amortisseurs 2
 Number of shock absorbers
 47) Suspension AR (Photo E) Type de ressort leaf springs
 Rear suspension (Photo E) Type of spring
 48) Nombre d'amortisseurs 2
 Number of shock absorbers
 49) Système de fixation des roues nut and bolt
 Method of fixation of wheels

FREINS - BRAKES

- 50) Système hydraulic
 Method of operation
 51) Servo frein (si prévu) Type : vacuum servo
 Servo assistance (if fitted) Type :
 52) Nombre de maîtres-cylindres 1
 Number of master-cylinders

	AVANT / FRONT	ARRIERE / REAR
53) Nombre de cylindres par roue Number of cylinders per wheel	1	1
54) Alésage Bore	48 mm	19.05 mm
Freins à tambour / Drum brakes		
55) Diamètre intérieur Inside diameter		203.2 mm
56) Nombre de mâchoires par frein Number of shoes per brake		2
57) Surface de freinage par frein Total area per brake		12150 mm ²
Freins à disques/Disc brakes		
58) Largeur des sabots Width of brake linings	47 mm	
59) Nombre de sabots par frein Number of pads per brake	2	
60) Surface de freinage par frein Total area per brake	5600 mm ²	



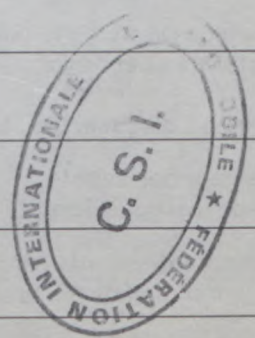
MOTEUR / ENGINE - A217

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- 65) Alésage 76 mm
Bore
- 67) Course 77 mm
Stroke
- 68) Cylindrée totale 1397 cm³
Total cylinder-capacity
- 69) Cylindrée maximum autorisée 1419 cm³
Maximum cylinder-capacity allowed
- 70) Culasse : matériau aluminium
Head : material
- 71) Nombre
Number
- 72) Type de vilebrequin integral
Type of crankshaft
- Coulé / estampé
Moulded / stamped stamped
- 73) Nombre de paliers de vilebrequin 5
Number of crankshaft main bearings
- 74) Diamètre maximal des manetons de vilebrequin 54.796 mm
Maximum diameter of the big end journal
- 75) Tête de bielle : type aluminium/steel diamètre 43.98 mm
Connecting rod big end type
- 76) Matériau des chapeaux des paliers de vilebrequin aluminium/steel
Material of bearing cap
- 77) Matériau du volant moteur steel - cast
Material of flywheel
- 78) Matériau du vilebrequin steel
Crankshaft material
- 79) Matériau de la bielle steel
Connecting rod material
- 80) Système de graissage : carter sec - carter humide oil in sump
Lubrication system : dry-sump - oil in sump
- 81) Nombre de pompes à huile 1
Number of oil pumps

Moteur 4 temps / 4 stroke engines

- 82) Nombre d'arbres à cames 1 Emplacement in cylinder block
Number of camshafts Location
- 83) Système de commande chain
Type of camshaft drive
- 84) Système de commande des soupapes push rod
Type of valve operation
- 85) Nombre de soupapes d'admission par cylindre 1
Number of inlet valves per cylinder
- 86) Nombre de soupapes d'échappement par cylindre 1
Number of exhaust valves per cylinder
- 87) Nombre de distributeurs 1
Number of distributors
- 88) Nombre de bougies par cylindre 1
Number of spark plug per cylinder



Marque / Make Volvo Modèle / Model 343 DL N° 5648

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TRANSMISSION AUX ROUES / DRIVE TRAIN

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Embrayage / Clutch

- 90) Nombre de disques / Number of plates 1
- 91) Système de commande / Method of operating clutch automatic / Cable

Boîte de vitesses / Gear-box

- 92) Contrôle manuel, marque / Manual type, make Volvo
- 93) Nombre de rapports AV / Number of gear-box ratios forward 4
- 94) Boîte automatique, marque / Automatic, make Volvo
- 95) Nombre de rapports AV / Number of gear-ratios forward _____



96	Manuelle / Manual		Automatique		Supp. manuel / Automatique			
	Rapport Ratio	N. dents Nr teeth	Rapport Ratio	N. dents Nr teeth	Rapport Ratio	N. dents Nr teeth	Rapport Ratio	N. dents Nr teeth
1	3,71	$\frac{34}{13} \times \frac{34}{24}$	infinite variable 14.22:1 - - 3.60:1		2,50	$\frac{30}{28} \times \frac{35}{15}$		
2	2,16	$\frac{32}{21} \times \frac{34}{24}$			1,63	$\frac{30}{28} \times \frac{32}{21}$		
3	1,37	$\frac{29}{30} \times \frac{34}{24}$			1,27	$\frac{30}{28} \times \frac{32}{27}$		
4	1,00				1,00			
5								
6								
M. AR / Rev.	3,68	$\frac{39}{15} \times \frac{34}{24}$			2,80	$\frac{30}{28} \times \frac{24}{13} \times \frac{34}{24}$		



- 97) Surmultiplication type / Overdrive type _____
- 98) Nombre de dents / Number of teeth _____
- 99) Rapport / Ratio _____
- 100) Vitesses en marche AV avec surmultiplication / Forward gears on which overdrive can be selected _____

Pont/moteur / Final drive

- 101) Type du pont moteur / Type of final drive gear train
- 102) Type de différentiel / Type of differential _____
- 103) Nombre de dents / Number of teeth 43:11
- 104) Rapport / Ratio 3,91 / 1



Photo C



Photo D

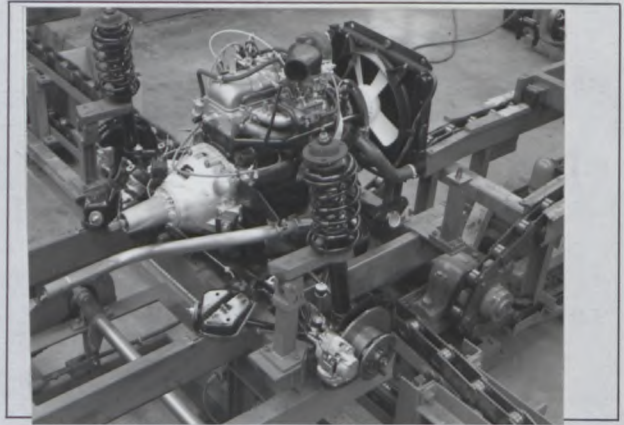


Photo E

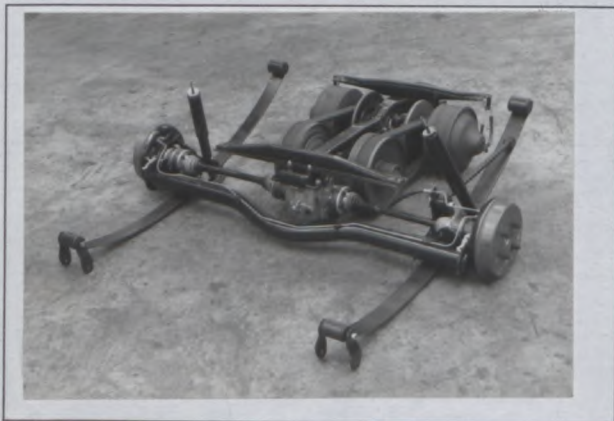


Photo F

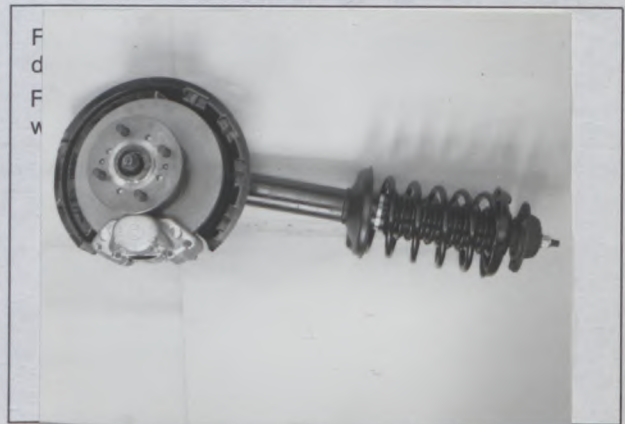


Photo G

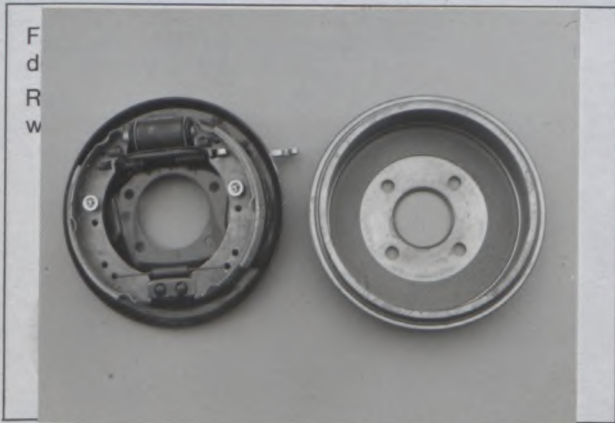


Photo H



Photo I

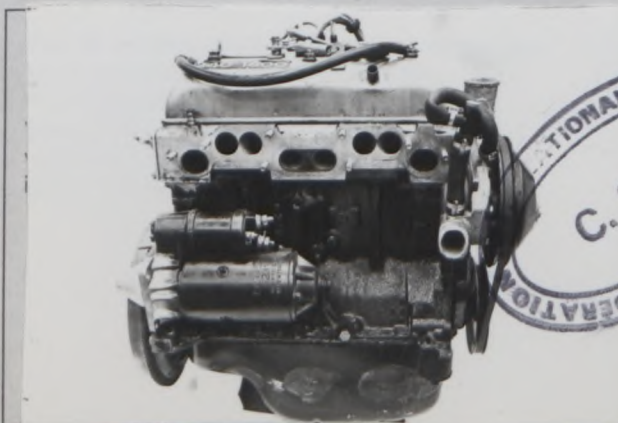
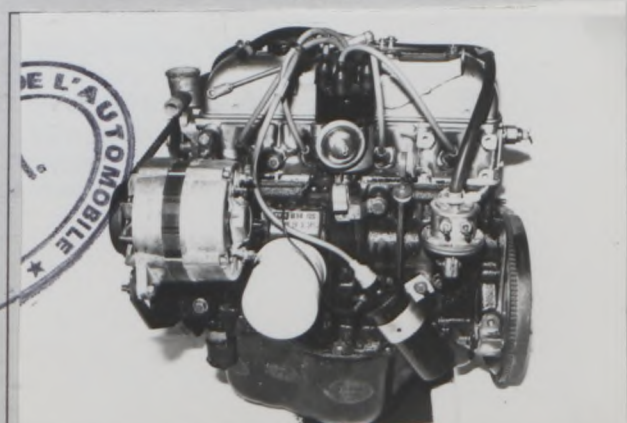


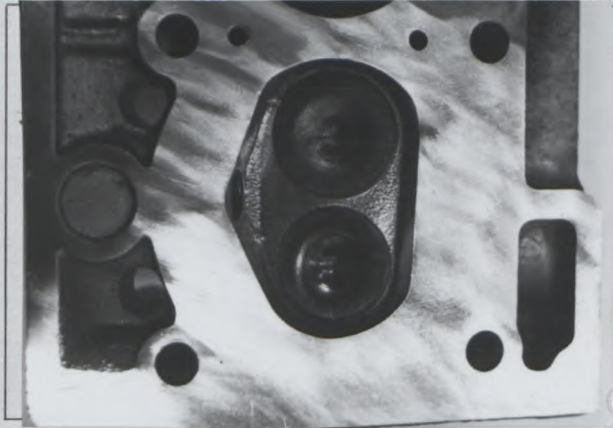
Photo J



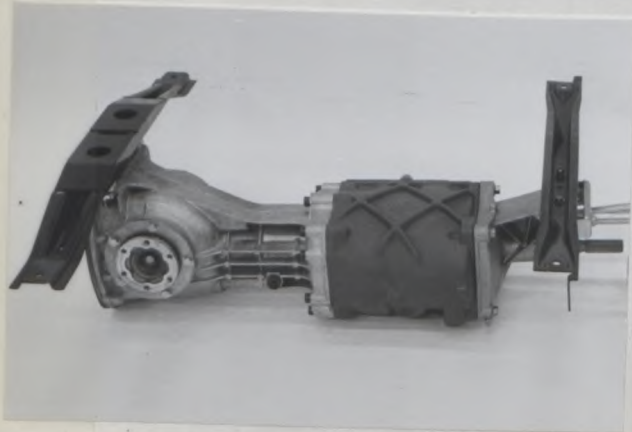
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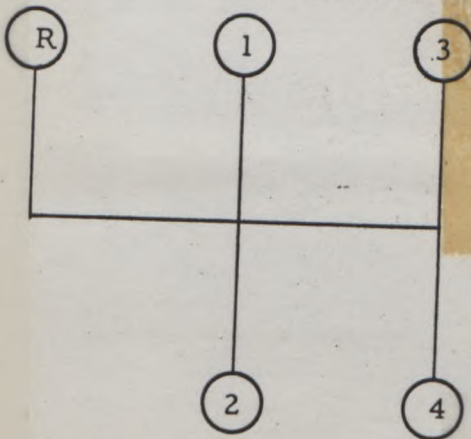
Photo K



Informations supplémentaires
Additional informations.



Grille de vitesses
Gear change gate



Marque / Make Volvo Modèle / Model 343 DL N° 5648

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COMPLÉMENT POUR LES GROUPES 1 ET 3
DU CODE SPORTIF INTERNATIONAL

ADDITIONAL DATA FOR GROUPS 1 AND 3
TO THE INTERNATIONAL SPORTING CODE

CAPACITÉS ET DIMENSIONS / CAPACITIES AND DIMENSIONS

- 110) Voie AV / Front track 1350/1366 mm
- 111) Voie AR / Rear track 1380/1396 mm
- 112) Garde au sol (pour vérification de la voie)
Ground clearance (for verification of the track) 170 mm
- 113) Hauteur hors-tout de la voiture / Overall height of the car 1392/1440 mm
- 114) Capacité du réservoir d'essence (y compris la réserve)
Fuel tank capacity (including reserve) 45 litres
- 115) Nombre de places 5 116) Poids 950 kg
Seating capacity Weight

EQUIPEMENT ET GARNITURES / ACCESSORIES AND UPHOLSTERY

- 120) Chauffage intérieur : oui - ~~non~~
Interior heating : yes - ~~no~~
- 121) Climatisation (sur option) : ~~oui~~ - non
Air conditioning (in option) : ~~yes~~ - no
- 122) Sièges AV : type separate seats, cloth
Front seats : type
- 123) Sièges AR : type bench, cloth
Rear seats : type

ROUES / WHEELS

- 124) Matériau steel/aluminium
Matériel
- 125) Poids unitaire (roue nue) 6.135/4.81 kg (tolérance $\pm 5\%$)
Unitary weight (bare wheel)
- 126) Diamètre de la jante 330.2 mm
Rim diameter
- 127) Largeur de la jante 127/139.7 mm
Rim width

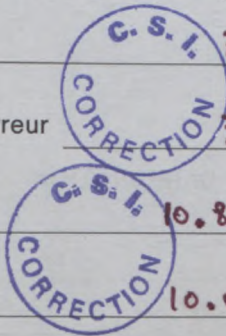
SUSPENSION

- 130) Stabilisateur AV (si prévu) yes
Front stabilizer (if fitted)
- 131) Stabilisateur AR (si prévu) no
Rear stabilizer (if fitted)



MOTEUR / ENGINE

- 135) Cylindrée par cylindre / Capacity per cylinder 349.3 cm³
- 136) Chemises : oui / ~~non~~
Sleeves : yes / ~~no~~
- 137) Nombre d'orifices d'admission par cylindres 1
Number of inlet ports per cylinder
- 138) Nombre d'orifices d'échappement par cylindre 1
Number of exhaust ports per cylinder
- 139) Rapport volumétrique 9.5:1
Compression ratio
- 140a) Volume de la chambre de combustion (minimum) _____
Volume of the combustion chamber
- 140b) Volume de la chambre de combustion dans la culasse 34 cm³
Volume of combustion chamber in head
- 141) Épaisseur du joint de culasse 1.2 mm
Thickness of head gasket inter tightened
- 142) Piston, matériau aluminium
Piston, material
- 143) Nombre de segments 3
Number of rings
- 144) Distance de la médiane de l'axe du piston au sommet du piston 37.5 mm
Distance from gudgeon pin center line to highest point of piston crown
- 145) Capacité du réservoir - carter 3.5 litres
Capacity, lubricant
- 146) Radiateur d'huile : ~~oui~~ - non
Oil cooler : ~~yes~~ - no
- 147) Capacité du circuit de refroidissement 5.5 litres
Capacity of cooling system
- 148) Ventilateur (si prévu), diamètre 320 mm Matériau plastic
Cooling fan (if fitted), diameter Material
- 149) Nombre de pales du ventilateur 5
Number of fan blades
- 150) Paliers vilebrequin, type aluminium/steel diamètre 54.795 mm
Crankshaft main bearings, type diameter
- 151) Poids volant (nu) 7.4 kg
Weight of flywheel (clean)
- 152) Poids du volant avec couronne de démarreur 7.87 kg
Weight of flywheel with starter ring
- 153) Poids du volant avec embrayage 10.87 kg
Weight of flywheel with clutch
- 154) Poids du vilebrequin 10.08 kg
Weight of crankshaft
- 155) Poids de la bielle 0.508 - 0.528 kg
Weight of con-rod
- 156) Poids du piston avec axe et segments 0.442 - 0.458 kg
Weight of piston with rings and pin



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ADMISSION / INLET

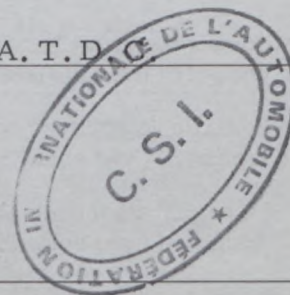
- 160) Matériau du collecteur d'admission aluminium
 Material of inlet manifold
- 161) Diamètre extérieur des soupapes 33.5 mm
 Outside diameter of valves
- 162) Levée maximum des soupapes 7.73 mm
 Maximum valve lift
- 163) Nombre de ressorts par soupape 1
 Number of springs per valve
- 164) Type de ressort coil
 Type of spring
- 165) Jeu théorique pour le calage de la distribution 0.15 mm
 Theoretical timing clearance
- 166) Avance d'ouverture (avec jeu théorique) 23° B.T.D.C.
 Valves open at (With tolerance for tappet clearance indicated)
- 167) Retard de fermeture 79° A.B.D.C.
 Valves close at

ÉCHAPPEMENT / EXHAUST

- 170) Matériau du collecteur d'échappement cast iron
 Material of exhaust manifold
- 171) Diamètre extérieur des soupapes 30.3 mm
 Outside diameter of valves
- 172) Levée maximum des soupapes 7.76 mm
 Maximum valve lift
- 173) Nombre de ressorts par soupape 1
 Number of springs per valve
- 174) Type de ressort coil
 Type of spring
- 175) Jeu théorique pour le calage de la distribution 0.20 mm
 Theoretical timing clearance
- 176) Avance d'ouverture (avec jeu théorique) 79° B.B.D.C.
 Valves open at (with tolerance for tappet clearance indicated)
- 177) Retard de fermeture 39° A.T.D.
 Valves close at

ALIMENTATION PAR CARBURATEURS / CARBURATION

- 180) Nombre de carburateurs 1
 Number of carburetors
- 181) Type downdraught, compound
- 182) Marque Weber 183) Modèle 32 DIR 57 alt. 32 DIR 48
 Make Model
- 184) Nombre de passages de gaz par carburateur 2
 Number of mixture passages per carburettor



Marque / Make Volvo Modèle / Model 343 DL N° 5648

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185) Diamètre de la tubulure de gaz à la sortie du carburateur 2 x dia. 32 mm
 Flange hole diameter of exit port of carburettor

186) Diamètre du diffuseur au point d'étranglement maximum dia. 23, dia. 24
 Minimum diameter of venturi

Injection (si prévue) (if fitted)

187) Marque de la pompe _____
 Make of pump

188) Nombre de pistons _____
 Number of plungers

189) Modèle ou type de la pompe _____
 Model or type of pump

190) Nombre total d'injecteurs _____
 Total number of injectors

191) Emplacement des injecteurs _____
 Location of injectors

192) Diamètre de la pipe d'admission au point de passage le plus étroit _____
 Minimum diameter of inlet pipe

ÉQUIPEMENT DU MOTEUR / ENGINE ACCESSORIES

195) Pompe à essence - mécanique et/ou électrique mechanical
 Fuel pump - mechanical and/or electrical

196) Nombre 1
 Number

197) Type du système d'allumage coil
 Type of ignition system

198) Nombre de bobines 1
 Number of ignition coils

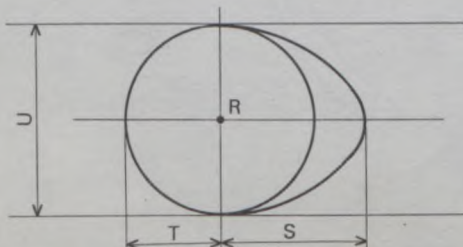
199) Génératrice : type alternator Nombre 1
 Generator : type Number

200) Système d'entraînement belt
 Method of drive

201) Batterie / Battery
 a) Tension 12 V b) Emplacement engine compartment
 Voltage Location

205) Arbres à cames / Camshaft

R : Centre



Camé admission
 Inlet cam

Camé échappement
 Exhaust cam

S = 18.68 mm 0.734 inches

S = 18.68 mm 0.734 inches

T = 13.5 mm 0.531 inches

T = 13.5 mm 0.531 inches

U = 27 mm 1.063 inches

U = 27 mm 1.063 inches



Marque / Make Volvo Modèle / Model 343 DL N° 5698

TRANSMISSION AUX ROUES / WHEEL DRIVE

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Embrayage / clutch

- 210) Type centrifugal
- 211) Diamètre / Diameter 181,5 mm
- 212) Diamètre des garnitures : intérieur 124 mm extérieur 181,5 mm
Diameter of linings : interior outside
- 213) Nombre de disques 1
Number of discs

Boîte de vitesses / Gear-box

- 215) Nombre de rapports AV synchronisés
Number of forward synchronised ratios
- 216) Emplacement de la commande
Location of the gear lever
- 217) Boîte automatique - emplacement de la commande floor
Automatic gear-box - location of gear lever
- 218) Surmultiplication - type
Overdrive type
- 219) Rapport de surmultiplication
Overdrive ratio

Pont moteur - Final drive

- 220) Type du pont autobloquant (si prévu)
Type of limited slip differential (if provided)
- 221) Nombre de dents du couple conique ou
Number of teeth of final drive or
- 222) Rapport au couple conique ou
Final drive ratio or



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Photo K

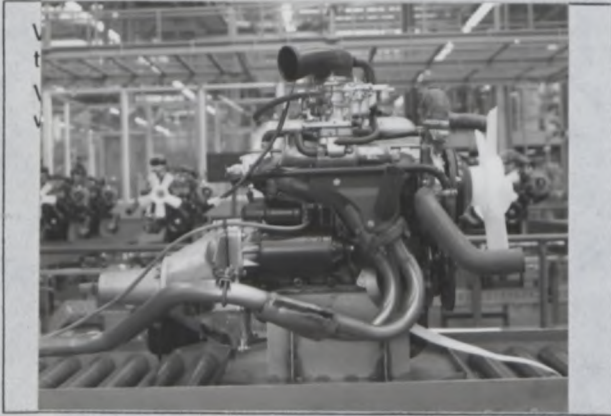


Photo L

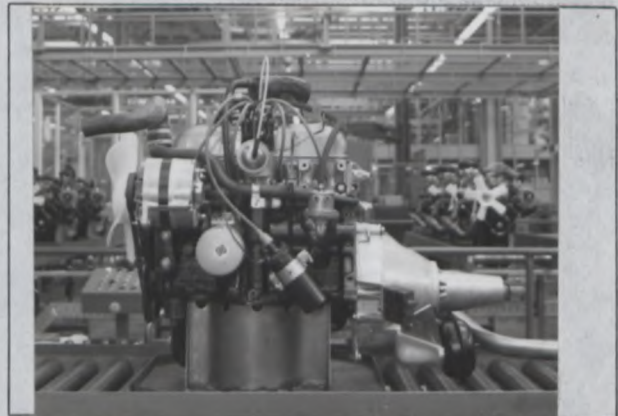


Photo M

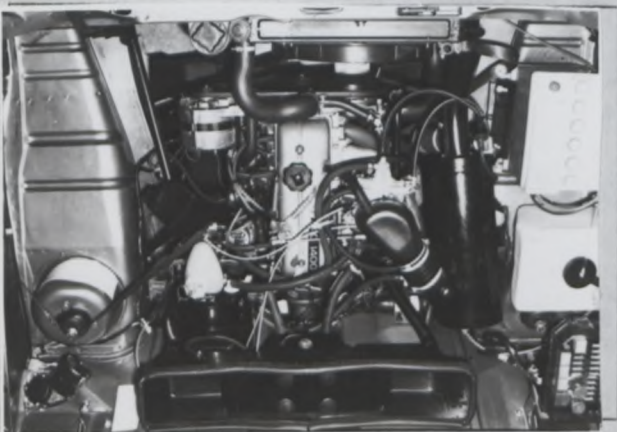


Photo N



Photo P



Photo Q



Photo R

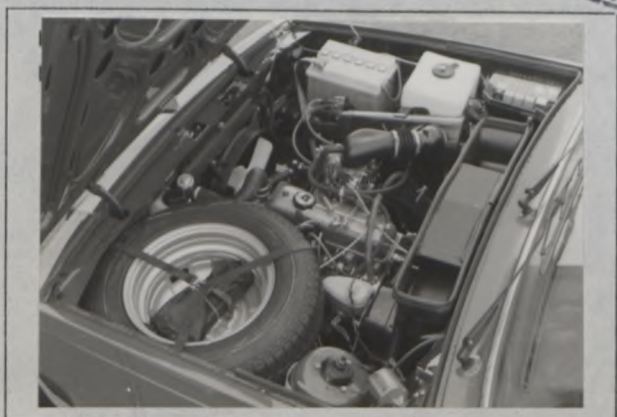
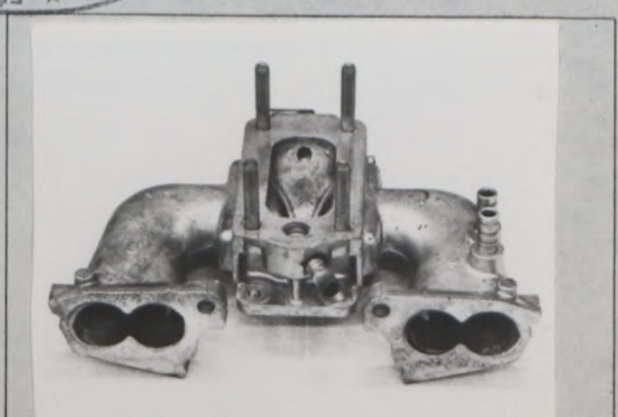


Photo S

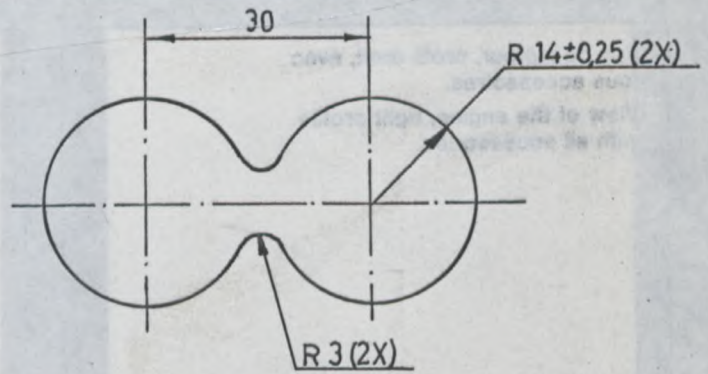


FEDERATION INTERNATIONALE DE L'AUTOMOBILE
C. S. I.

Dessin orifices collecteur admission, face côté culasse.

Drawing inlet manifold ports, side of cylinderhead.

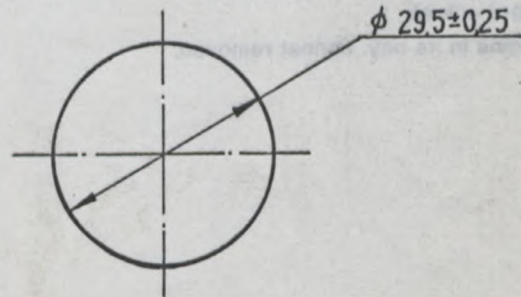
avec dimensions
with



Dessin orifices admission culasse face collecteur.

Drawing of entrance to inlet port of cylinderhead.

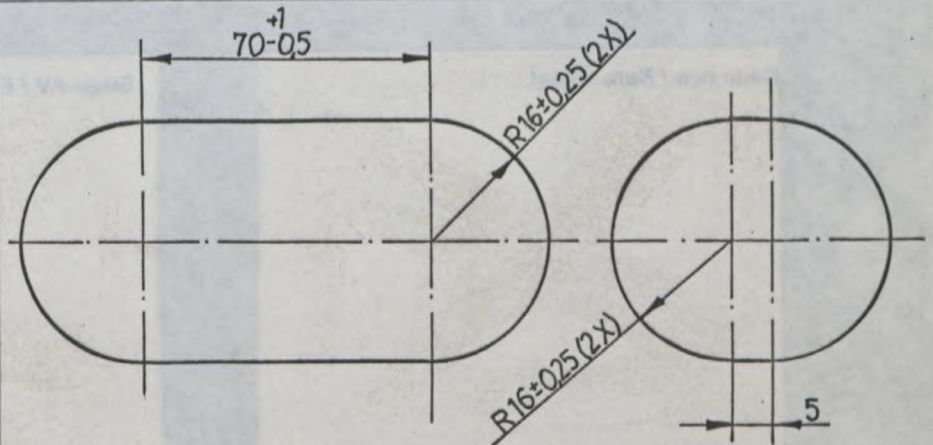
avec dimensions
with



Dessin orifices collecteur échappement face côté culasse.

Drawing of exhaust manifold ports, side of cylinderhead.

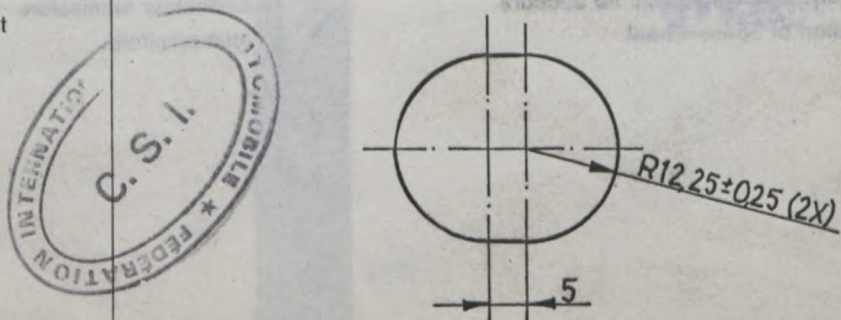
avec dimensions
with



Dessin orifices échappement culasse face collecteur.

Drawing of exit to exhaust port cylinderhead.

avec dimensions
with



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Photo T

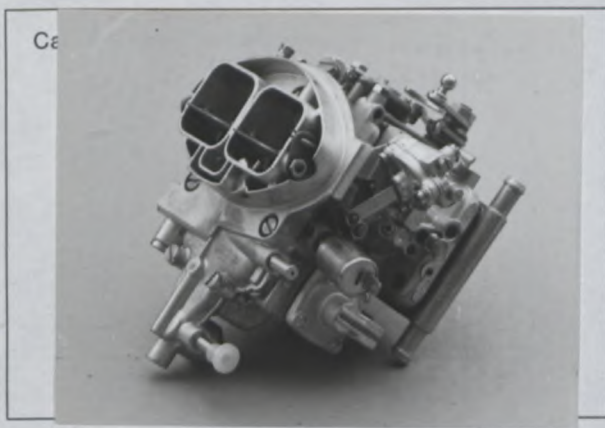


Photo U

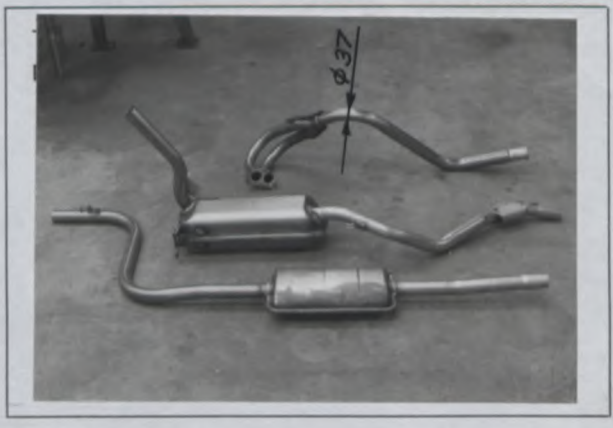


Photo V

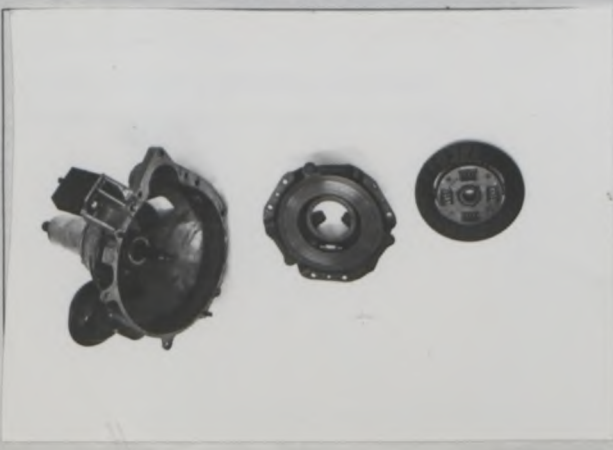


Informations supplémentaires
Additional informations

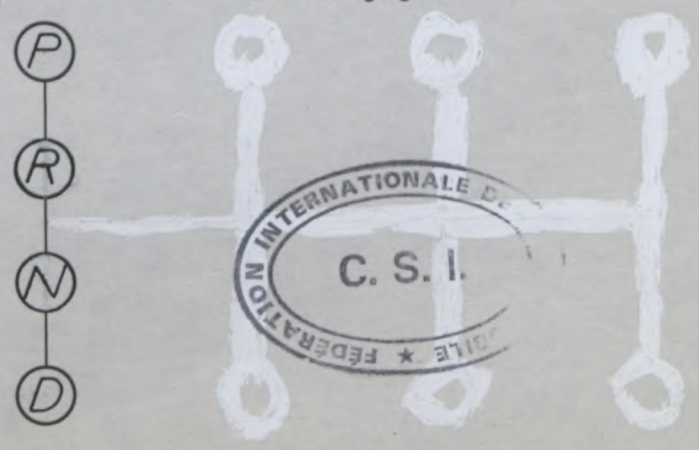
photo P



Photo W



Grille de vitesses
Gear change gate





F. I. A. Recognition No.
FIA Identifieringskort Nr

5648
1/IV

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KUNGL. AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

Form of Recognition (normal development of original vehicle type)
Identifieringskort (normal utveckling av vagnstypen)

Variant

valid from
gällande fr. o. m. 1.4.77 upon documentation delivered by the manufacturer.
på grundval av från tillverkaren lämnade uppgifter.

Make
Märke Volvo

Previously recognized type, to which this extension refers
Tidigare klassad typ, till vilken denna utökning hänföres Volvo 343 DL 1.4

Date when the first vehicles in this stage of development were manufactured
Tillverkningsdatum för de första fordonen av denna vidareutveckling 24/2 1976

Serial No. of the type inaugurating this extension
Nummerserie för denna utvecklade typ 343510

The
Modellen 343 L 1.4 recognized in Category
klassad i kategori 1

by the F. I. A. on the
av FIA den _____ List
Lista _____ as a normal
som normal

development of the original vehicle type.
utveckling av vagnstypen



Stamp and signature of the F. I. A.
FIA:s signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

[Handwritten signature]



Form of Recognition (Normal development of original vehicle type)

Identifiseringskort (Normal utveckling av vagnstypen)

No. _____ Make Volvo Type 343 L
Nr _____ Märke _____ Typ _____ 1/1V

Photographic documentation
Fotografier



Stockholm den 12/11 1976

KUNGL AUTOMOBIL KLUBBEN
SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

[Handwritten signature]



F. I. A. Recognition No. 5648

FIA Identifieringskort Nr

02/01E

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

FISA - Transfert en Gr.A

Form of Recognition (normal development of original vehicle type)

Identifieringskort (normal utveckling av vagnstypen)

valid from gällande fr. o. m. -1 JAN 1979 upon documentation delivered by the manufacturer. på grundval av från tillverkaren lämnade uppgifter.

Make Märke VOLVO

Previously recognized type, to which this extension refers Tidigare klassad typ, till vilken denna utökning hänföres 343 DL 1,4

Date when the first vehicles in this stage of development were manufactured Tillverkningsdatum för de första fordonen av denna vidareutveckling 1/8 1978

Serial No. of the type inaugurating this extension Nummerserie för denna utvecklade typ 388000

The Modellen 343 DL 1,4 recognized in Category klassad i kategori 1

by the F.I.A. on the av FIA den List Lista as a normal som normal

development of the original vehicle type. utveckling av vagnstypen

Stamp and signature of the F.I.A.
FIAs signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

	1979 year model	Alt 1	Alt 2
139	Compression ratio:	9,5:1	9,25:1
140b	Volume of combustion chamber in head:	34 cm ³	35 cm ³
161	Outside diameter of inlet valve:	33,5 mm	34,2 mm
171	Outside diameter of exhaust valve:	30,3 mm	29,0 mm
183	Model of carburettor:	Weber 32 DIR 74	32 DIR 83 or 32 DIR 85

The two engine versions have the same output (and the same as the original version)



SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

Form of Recognition (Normal development of original vehicle type)
Identiferingskort (Normal utveckling av vagnstypen)

02/01E

FISA - Transfert en Gr.A

No. 5648 Make VOLVO Type 343 DL 1,4
Nr _____ Märke _____ Typ _____

Photographic documentation
Fotografier

Photo A



Photo B



Photo C



Stockholm den _____ 19 _____

KUNGL AUTOMOBIL KLUBBEN

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

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F. I. A. Recognition No.
FIA Identifieringskort Nr

5648

03/02V

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

FISA - Transfert en Gr.A

Form of Recognition (Variation)
Identifieringskort (Variant)

valid from
gällande fr. o. m. -1. JAN. 1979

upon documentation delivered by the manufacturer.
på grundval av från tillverkaren lämnade uppgifter.

Make
Märke VOLVO

Previously recognized type, to which this extension refers
Tidigare klassad typ, till vilken detta tillägg hänföres 343 DL 1,4

Date when the first vehicles in this stage of development were manufactured
Tillverkningsdatum för de första fordonen av denna vidareutveckling

Serial No. of the type inaugurating this extension
Nummerserie för denna utvecklade typ

Model name of this variation
Modellbeteckning för denna variant

The
Modellen 343 DL 1,4 with roll-over bar, recognized in Category
klassad i kategori 1

by the F.I.A. on the
av F.I.A. den

List
Lista

as a normal
som normal

development of the original vehicle type.
utveckling av vagnstypen

Stamp and signature of the F.I.A.
FIA:s signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

Roll-over bar

Part number: 1156554

Outside diameter of tubes: 50 mm alt
40 mm

Wall thickness of tubes: 3,5 mm

Material: SIS 144212 (AlSi1Mg)

R_{eL} (elastic limit): 285 N/mm²

Weight: 17,5 kg



The manufacturer certifies that the car's structure, including the roll-bar, complies with the standards required by the FIA for open cars.



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THE SWEDISH AUTOMOBILE-SPORT FEDERATION



F. I. A. Recognition No. 5648
FIA Identifieringskort Nr

04/03V

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

FISA - Transfert en Gr.A

Form of Recognition (Variation)
Identifieringskort (Variant)

valid from _____ upon documentation delivered by the manufacturer.
gällande fr. o. m. _____ på grundval av från tillverkaren lämnade uppgifter.

Make VOLVO
Märke _____

Previously recognized type, to which this extension refers VOLVO 343 DL 1,4
Tidigare klassad typ, till vilken detta tillägg hänföres _____

Date when the first vehicles in this stage of development were manufactured 22 May 1978
Tillverkningsdatum för de första fordonen av denna vidareutveckling _____

Serial No. of the type inaugurating this extension 370000
Nummerserie för denna utvecklade typ _____

Model name of this variation
Modellbeteckning för denna variant

The 343 DL 1,4 MT recognized in Category 1
Modellen _____ klassad i kategori _____

by the F.I.A. on the -1.JAN.1979 List _____ as a normal
av F.I.A. den _____ Lista _____ som normal

development of the original vehicle type.
utveckling av vagnstypen

Stamp and signature of the F.I.A.
FIA:s signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

MANUAL GEARBOX

- ~~90, 213~~ Number of clutch plates: ~~1~~
- ~~91~~ Method of operating clutch: ~~Cable~~
- 92 Manual gearbox, make: Volvo
- 93, 215 Number of forward ratios: 4



SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION

Form of Recognition (Variation)

FISA - Transfert en Gr.A

Identifiseringskort (Variant)

No. 5648

Make VOLVO
MärkeType 343 DL 1,4 MT
Typ

96

Gear	Alt 1		Alt 2	
	ratio	Nr teeth	ratio	Nr teeth
1st	3,71	$\frac{34}{13} \times \frac{34}{24}$	2,50	$\frac{30}{28} \times \frac{35}{15}$
2nd	2,16	$\frac{32}{21} \times \frac{34}{24}$	1,63	$\frac{30}{28} \times \frac{32}{21}$
3rd	1,37	$\frac{29}{30} \times \frac{34}{24}$	1,27	$\frac{30}{28} \times \frac{32}{27}$
4th	1,00		1,00	
Rev	3,68	$\frac{39}{15} \times \frac{34}{24}$	2,80	$\frac{30}{28} \times \frac{24}{13} \times \frac{34}{24}$

101	Type of final drive:	Hypoid
102	Type of differential:	Not limited slip
103, 221	Number of teeth:	43:11
104, 222	Ratio:	3,91:1
116	Weight:	940 kg
151	Weight of flywheel (clean):	12,5 kg
152	Weight of flywheel with starter ring:	12,9 kg
153	Weight of flywheel with clutch:	16,9 kg
210	Type of clutch:	Dry disc
211	Diameter:	201 mm
212	Diameter of lining:	Interior 135 mm Outside 188 mm
216	Location of gearlever:	Floor

Stockholm den _____ 19____

KUNGL AUTOMOBIL KLUBBEN
SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION



F. I. A. Recognition No. 5648

FIA Identifieringskort Nr

05 / 02 E

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

FISA - Transfert en Gr.A

Form of Recognition (normal development of original vehicle type)

Identifieringskort (normal utveckling av vagnstypen)

valid from _____ upon documentation delivered by the manufacturer.
gällande fr. o. m. _____ på grundval av från tillverkaren lämnade uppgifter.

Make VOLVO
Märke _____

Previously recognized type, to which this extension refers 343 DL 1,4
Tidigare klassad typ, till vilken denna utökning hänföres _____

Date when the first vehicles in this stage of development were manufactured 1 August 1977
Tillverkningsdatum för de första fordonen av denna vidareutveckling _____

Serial No. of the type inaugurating this extension 348000
Nummerserie för denna utvecklade typ _____

The 343 DL 1,4 recognized in Category 1
Modellen _____, klassad i kategori _____

by the F.I.A. on the -1.FEV.1979 List
av FIA den _____ Lista _____

development of the original vehicle type.
utveckling av vagnstypen

as a normal
som normal

Stamp at
FIA:s sig



DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

1978 year model

Photo C

Photo Q



SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION





F. I. A. Recognition No.
FIA Identifieringskort Nr 5648

06 / 04 V

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

FISA - Transfert en Gr.A

Form of Recognition (Variation)
Identifieringskort (Variant)

valid from 1/1 1980 upon documentation delivered by the manufacturer.
gällande fr. o. m. på grundval av från tillverkaren lämnade uppgifter.

Make Volvo
Märke

Previously recognized type, to which this extension refers 343 DL 1,4
Tidigare klassad typ, till vilken detta tillägg hänföres

Date when the first vehicles in this stage of development were manufactured 1/8 1979
Tillverkningsdatum för de första fordonen av denna vidareutveckling

Serial No. of the type inaugurating this extension 458.000
Nummerserie för denna utvecklade typ

Model name of this variation 345
Modellbeteckning för denna variant

The 345 recognized in Category 1
Modellen, klassad i kategori

by the F.I.A. on the -1.AVR.1980 List as a normal
av F.I.A. den Lista som normal

development of the original vehicle type.
utveckling av vagnstypen

Stamp and signature of the F.I.A.
F.I.A:s signatur och stämpel



DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

5 door version

Photo A



Photo B



116 weight 965 kg

SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION



F. I. A. Recognition No.
FIA Identifieringskort Nr

5648

07/05 V

KUNGL. AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

Form of Recognition (Variation)
Identifieringskort (Variant)

FISA - Transfert en Gr.A

valid from 1/1 1980 upon documentation delivered by the manufacturer.
gällande fr. o. m. på grundval av från tillverkaren lämnade uppgifter.

Make Volvo
Märke

Previously recognized type, to which this extension refers 343 DL 1,4
Tidigare klassad typ, till vilken detta tillägg hänföres

Date when the first vehicles in this stage of development were manufactured 1/8 1979
Tillverkningsdatum för de första fordonen av denna vidareutveckling

Serial No. of the type inaugurating this extension 458.000
Nummerserie för denna utvecklade typ

Model name of this variation 343 DL 1,4
Modellbeteckning för denna variant

The 343 DL 1,4 recognized in Category 1
Modellen, klassad i kategori

by the F.I.A. on the -1. AVR. 1980 List as a normal
av F.I.A. den Lista som normal

development of the original vehicle type.
utveckling av vagnstypen

Stamp and signature of the F.I.A.
FIA:s signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

Following variants are introduced, individually or together:

A. Alternative wheel giving increased track

- 110. Front track 1.370
- 111. Rear track 1.400

B. Strengthened de Dion tube



SVENSKA BILSPORTFÖRBUNDET
THE SWEDISH AUTOMOBILE-SPORT FEDERATION





F. I. A. Recognition No.
FIA Identifieringskort Nr 5648

08/06F

KUNGL AUTOMOBIL KLUBBEN
THE ROYAL SWEDISH AUTOMOBILE CLUB

FISA - Transfert en Gr.A

Form of Recognition (normal development of original vehicle type)
Identifieringskort (normal utveckling av vagnstypen)

valid from gällande fr. o. m.	1/1 1980	upon documentation delivered by the manufacturer, på grundval av från tillverkaren lämnade uppgifter.
Make Märke	Volvo	
Previously recognized type, to which this extension refers Tidigare klassad typ, till vilken denna utökning hänföres		343 DL 1,4
Date when the first vehicles in this stage of development were manufactured Tillverkningsdatum för de första fordonen av denna vidareutveckling		1/8 1979
Serial No. of the type inaugurating this extension Nummerserie för denna utvecklade typ		458.000
The Modellen	343 DL 1,4	recognized in Category , klassad i kategori
by the F. I. A. on the av FIA den	-1. AVR. 1980	List Lista
development of the original vehicle type. utveckling av vagnstypen		as a normal som normal

Stamp and signature of the F. I. A.
FIA:s signatur och stämpel

DESCRIPTION OF MODIFICATIONS HAVING LED TO THIS RECOGNITION
BESKRIVNING AV DE ÄNDRINGAR, SOM LETT TILL DENNA KLASSNING

1980 year model

- | | |
|------------------------------------|-----------------------|
| 58. Width of brake linings, front | 45 mm |
| 60. Total area per brake, front | 7.850 mm ² |
| 61. Thickness of brake disc, front | 12,85 mm |

Photo F



[Handwritten signature]

[Handwritten signature]