



FEDERATION INTERNATIONALE
DE L'AUTOMOBILE

Homologation N°

F3-336

FICHE D'HOMOLOGATION POUR MOTEUR DE FORMULE 3
HOMOLOGATION FORM FOR FORMULA 3 ENGINE

Véhicule : Constructeur
Vehicle : Manufacturer

VOLKSWAGEN

Modèle et type
Model and type

GOLF 5 – ENGINE IDENTITY: CBF

Homologation valable à partir du
Homologation valid as from

01 JUIL. 2007

**MOTEUR (version standard)
ENGINE (standard version)**

Cycle
Cycle

VIER-TAKT / FOUR STROKE

Nombre et disposition des cylindres
Number and layout of the cylinders

IN REIHE / LINE

Mode de refroidissement
Cooling system

FLÜSSIGKEIT / LIQUID

Cylindrée
Cylinder capacity

Unitaire
Unitary **496.1** cm3

Totale
Total **1984.3** cm3

Matériau du bloc cylindres
Cylinder block material

ALU GUß / CAST ALUMINIUM

Chemises
Sleeves

oui
yes non
no

Type
Type

humides
wet sèches
dry

Alésage
Bore

82.5 +/- 0.1 mm

Course
Stroke

92.8 +/- 0.1 mm

Vilebrequin
Crankshaft

Type de paliers
Type of bearings

GLEITLAGER/SLIDE BEARINGS

Matériau des chapeaux de paliers
Bearing cap material

GUß / CAST IRON

Marque
Make **VOLKSWAGEN**

Modèle
Model **GOLF 5 ENGINE IDENTITY: CBF**

F3-336

Culasse
Cylinder head

Nombre
Number **1** Emplacement
Location **AUF BLOCK / TOP OF CYLINDER BLOCK**

Système de commande des soupapes
Type of valve operation **ROLLENSCHLEPPHEBEL / ROLLER CAM LEVER**

Angle entre axe de la soupape d'admission et axe de la soupape d'échappement
Angle between inlet valve axle and exhaust valve axle **44°54'**

Admission
Inlet

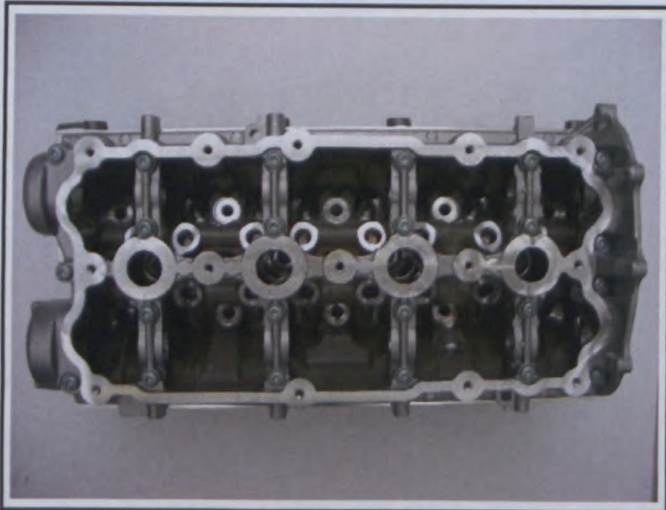
Nombre de soupapes par cylindre
Number of valves per cylinder **2** Type des ressorts de soupape
Type of valve springs **SCHRAUBENFEDER / COIL SPRING**

Echappement
Exhaust

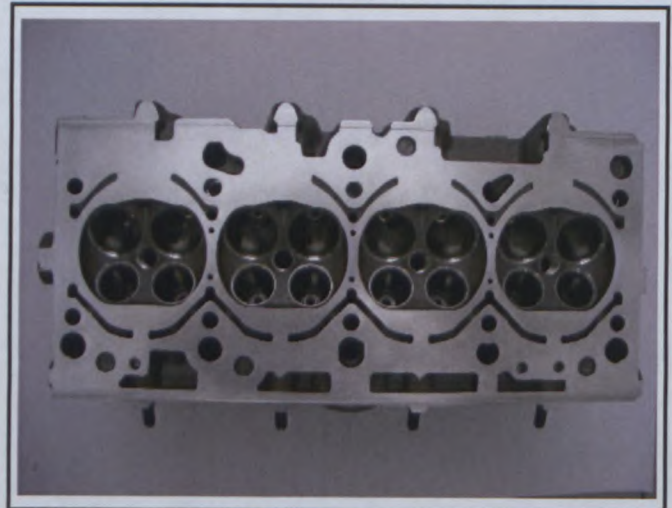
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PHOTOS

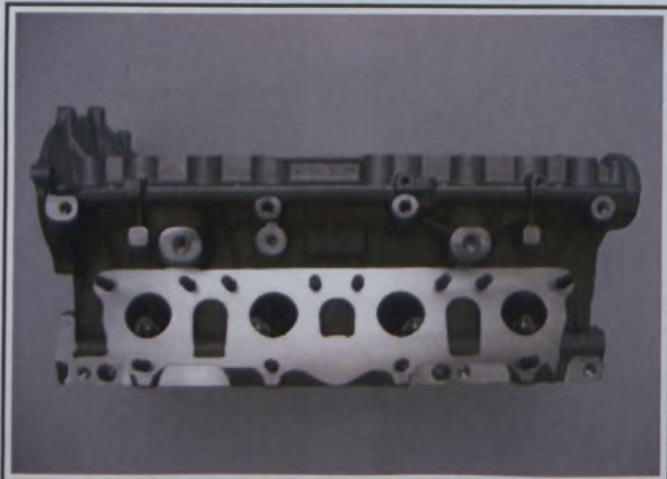
Culasse nue vue de dessus
Bare cylinder head seen from above



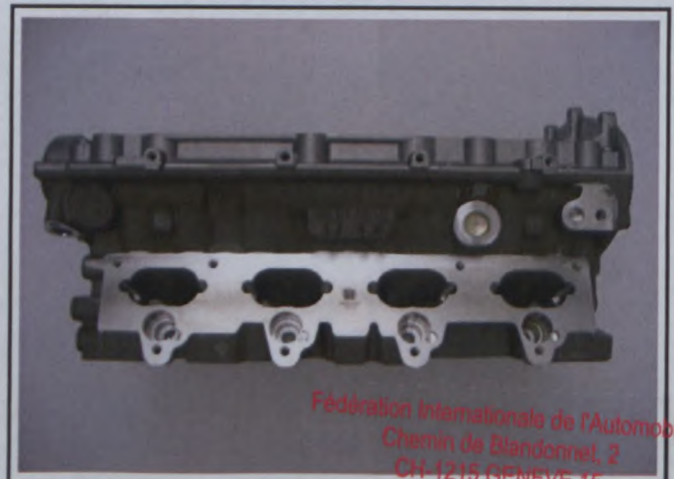
Culasse nue vue de dessous
Bare cylinder head seen from below



Profil droit de culasse nue
Right hand view of bare cylinder head



Profil gauche de culasse nue
Left hand view of bare cylinder head



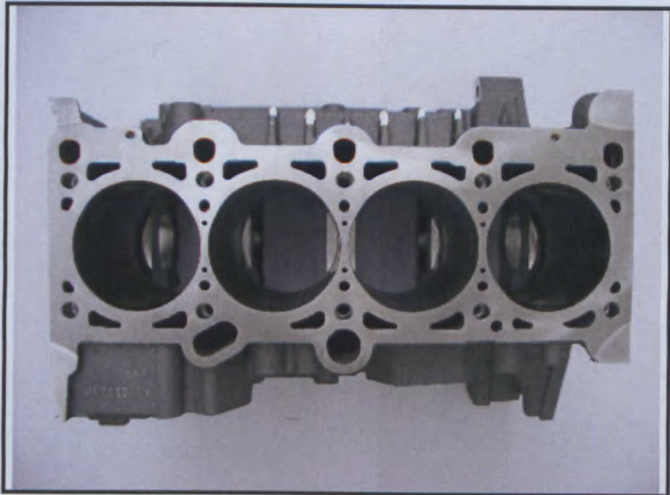
Marque
Make **VOLKSWAGEN**

Modèle
Model **GOLF 5 ENGINE IDENTITY: CBF**

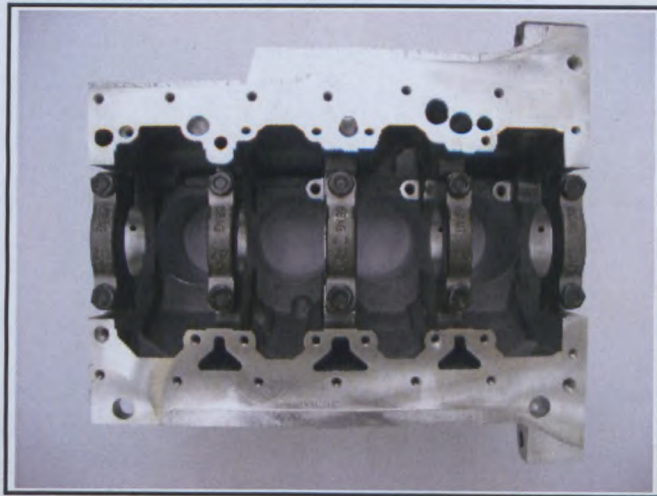
F3-336

Bloc
Block

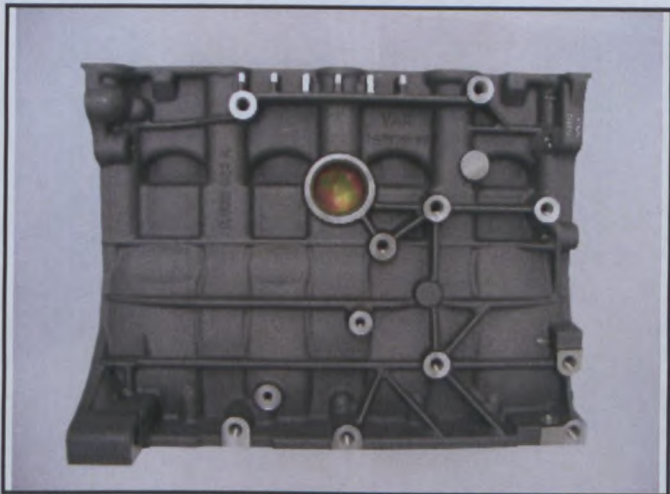
Bloc nu vu de dessus
Bare block seen from above



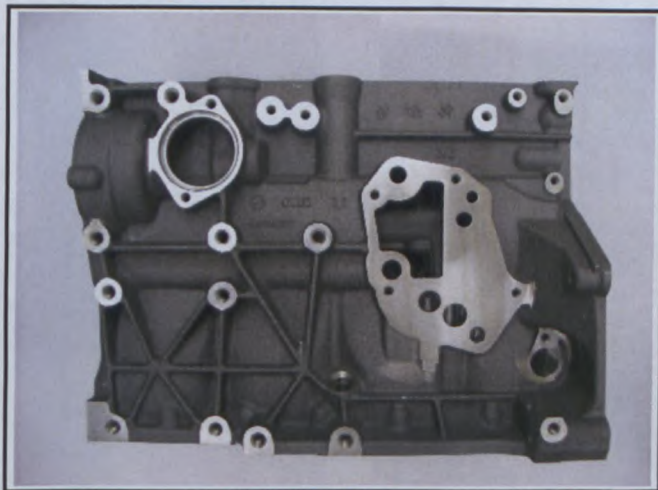
Bloc nu vu de dessous
Bare block seen from below



Profil droit du bloc nu
Right hand view of bare block



Profil gauche du bloc nu
Left hand view of bare block



REÇU le
22 JUIN 2007



Volkswagen Motorsport GmbH · Ikarusallee 7a · D-30179 Hannover

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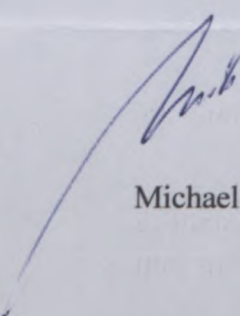
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Production Certificat Volkswagen

Dear Pierre,

find attached the original Production Certificate that is needed for the F3 engine Homologation (engine typ CBF)

Kind regards


Michael Bernard

Hannover, 19th June 2007

Geschäftsführung:

Kris Nissen
Motorsport-Direktor
Sprecher der Geschäftsführung

Wolfgang Dressler
Geschäftsführer Finanz,
Logistik, Administration

Sitz: Hannover
Amtsgericht: Hannover
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DE 35269410530685596900
Code/Swift COBADEFF269

Motorsport

Dokument3



Homologation

Datum: 26.03.2007

Projekt: Airbox

Homologations-
nummer: F3 – 310; F3 – 327; F3 - XXX

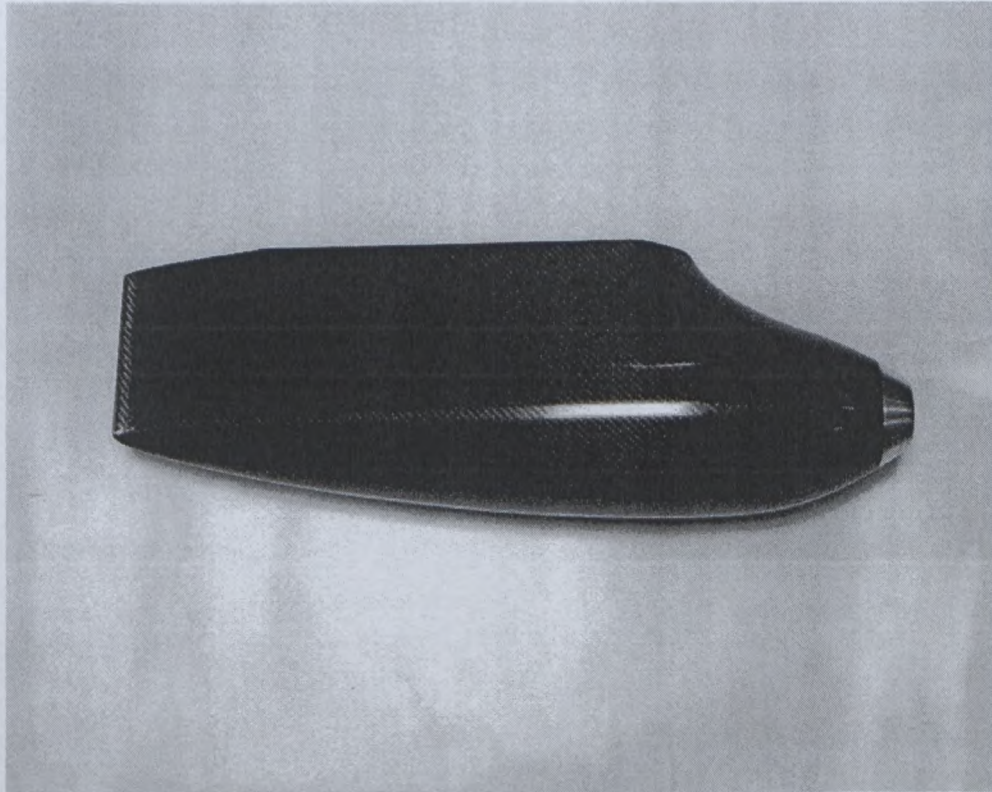


Bild1: Airbox

Abmessungen: Höhe/height: 261 +/- 8mm

Breite/width: 190,5 +/- 8mm

Länge/length: 765 +/- 10mm

Homologation

Datum: 26.03.2007

Projekt: VW – Motorblock Formel 3; Stand 2007

Homologations-
nummer: F3 - XXX

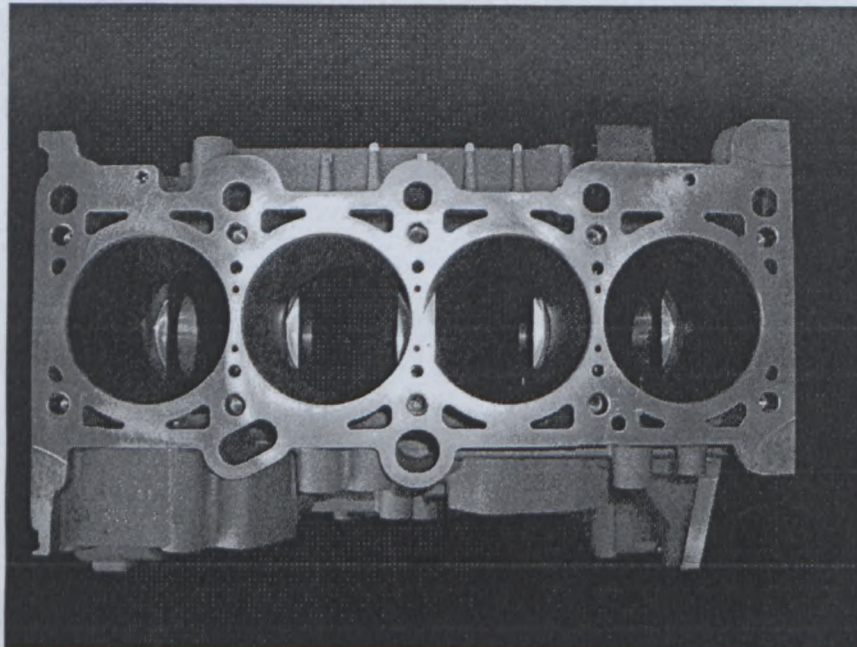


Bild1: Zylinderbohrung auf \varnothing 83mm vergrößert; Gewinde in Ölkanal

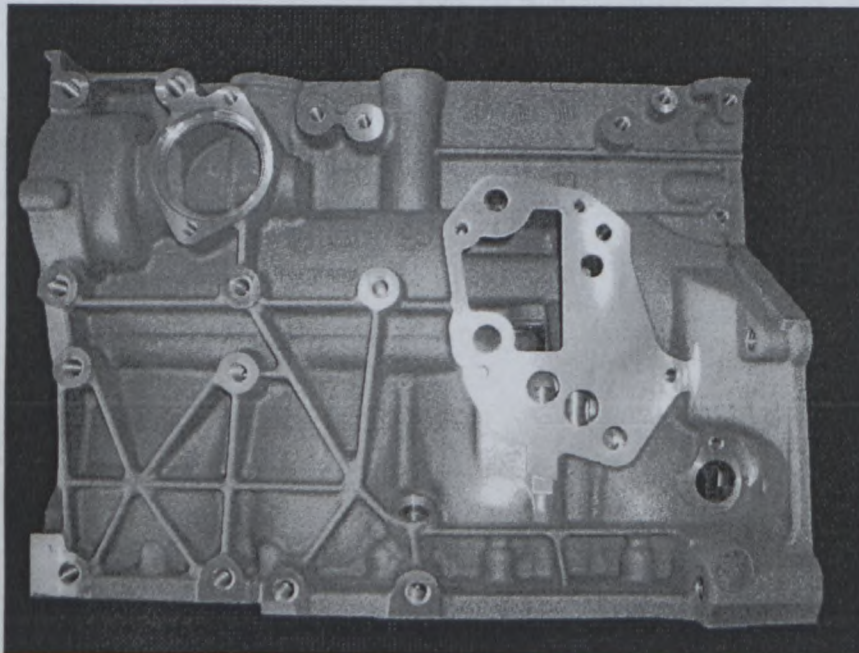


Bild 2: Freigangbearbeitung für Ölpumpen

Homologation

Datum: 26.03.2007

Projekt: VW – Zylinderkopf Formel 3; Stand 2007

Homologations-
nummer: F3 - XXX

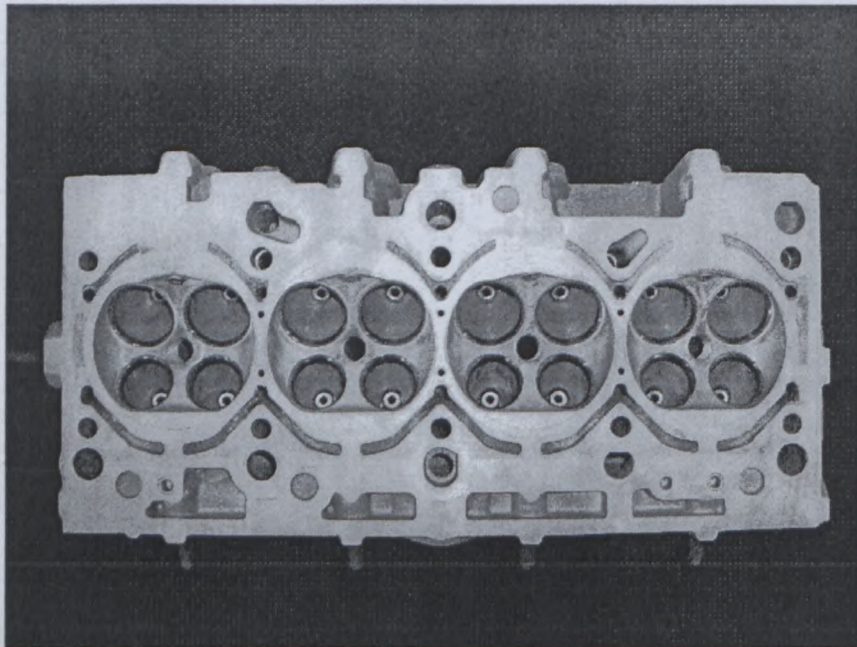


Bild1: Brennraum; Einlass- und Auslasssitze vergrößert;

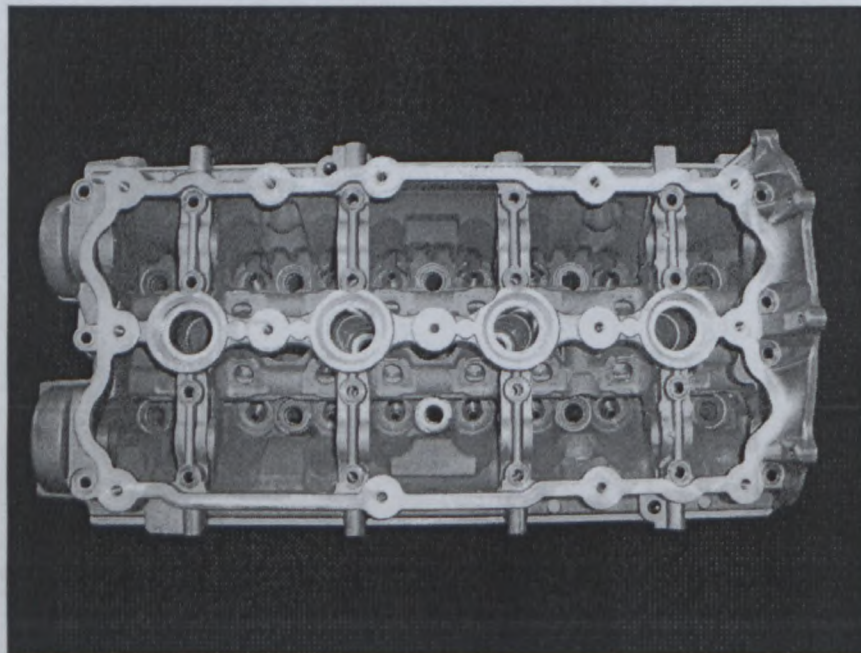


Bild 2: Aufnahme der Schleppebellager bearbeitet; Zündspulenfreigang erstellt

Homologation

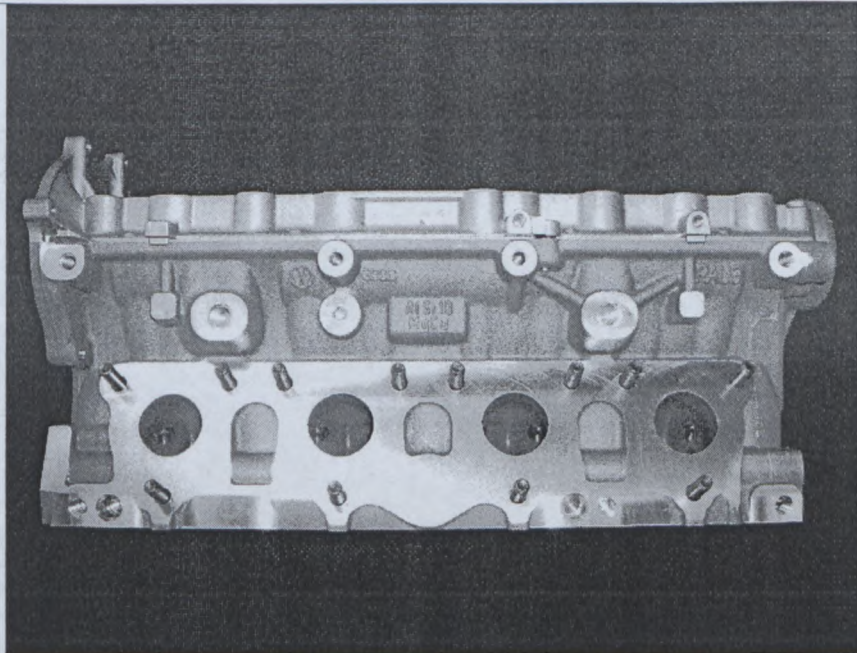


Bild 3: Auslasskanal

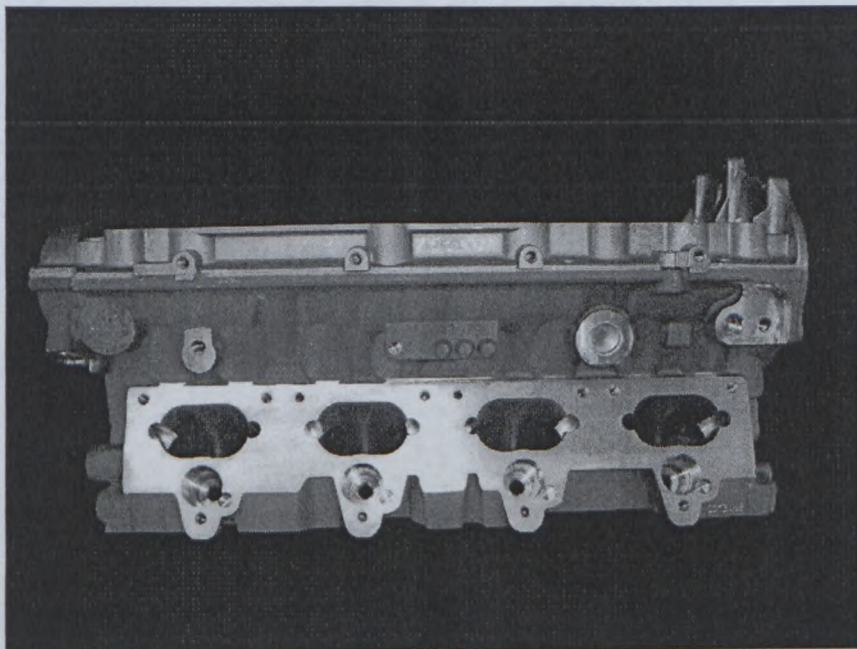


Bild 4: Einlasskanal; Gewinde Einspritzdüsenbohrung; I-Geberbohrung vergrößert; Tumbleklappenbohrungen vergrößert; Zusätzliche Gewinde für Saugrohrbefestigung