



FEDERATION INTERNATIONALE
DE L'AUTOMOBILE

Homologation N°

F3-333

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

Véhicule : Constructeur
Vehicle : Manufacturer

Adam Opel GmbH/Vauxhall

Modèle et type
Model and type

Zafira B

Homologation valable à partir du
Homologation valid as from

01 AVR. 2006

MOTEUR (version standard)
ENGINE (standard version)

Cycle
Cycle four stroke

Nombre et disposition des cylindres
Number and layout of the cylinders 4 in line

Mode de refroidissement
Cooling system Liquid

Cylindrée
Cylinder capacity Z 16 XEP Cylinder Block, coming from Zafira B 1,6

Unitaire Unitary	<u>399,5</u> cm3	Totale Total	<u>1598</u> cm3
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Matériau du bloc cylindres
Cylinder block material cast iron

Chemises
Sleeves

<input type="checkbox"/> oui yes	<input checked="" type="checkbox"/> non no
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Type
Type

<input type="checkbox"/> humides wet	<input type="checkbox"/> sèches dry
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Alésage Bore	<u>79,0</u> +/- 0.1 mm	Course Stroke	<u>81,5</u> +/- 0.1 mm
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Vilebrequin
Crankshaft

Type de paliers
Type of bearings plain bearings

Matériau des chapeaux de paliers
Bearing cap material

cast iron

Fiches à classer.
* 2 exemplaires donnés à Pierre C.

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Chemin de Blonnet, 2
CH-1216 GENEVE 15
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Marque
Make **OPEL**

Modèle
Model **Zafira B**

F3-333

Culasse
Cylinder head **Z 18 XER Cylinder head, coming from Zafira B 1,8**

Nombre
Number **1** Emplacement
Location **Top of Cylinder block**

Système de commande des soupapes
Type of valve operation **Direct camshaft bucket tappets to valve**

Angle entre axe de la soupape d'admission et axe de la soupape d'échappement
Angle between inlet valve axle and exhaust valve axle **43°**

Admission
Inlet

Nombre de soupapes par cylindre
Number of valves per cylinder **2** Type des ressorts de soupape
Type of valve springs **coil spring**

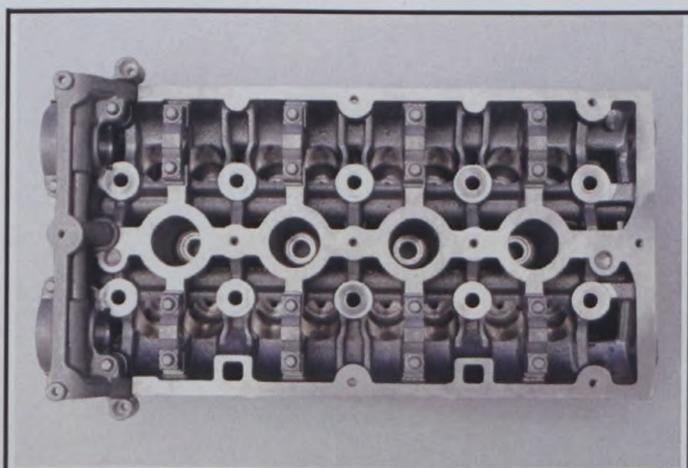
Echappement
Exhaust

Nombre de soupapes par cylindre
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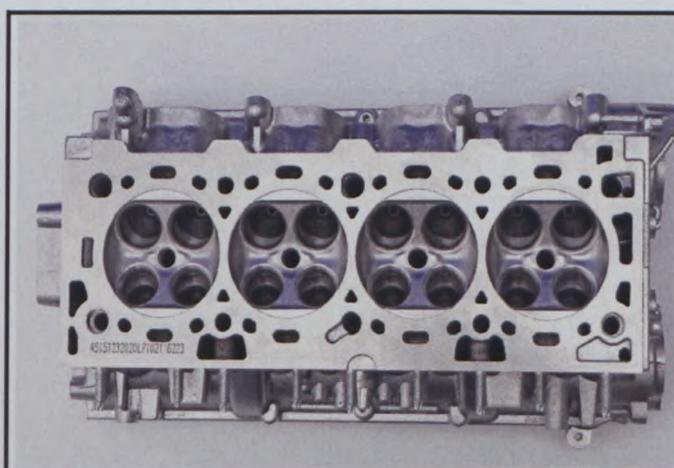
PHOTOS

Cylinderhead coming from Zafira B 1,8 Z 18 XER

Culasse nue vue de dessus
Bare cylinder head seen from above



Culasse nue vue de dessous
Bare cylinder head seen from below



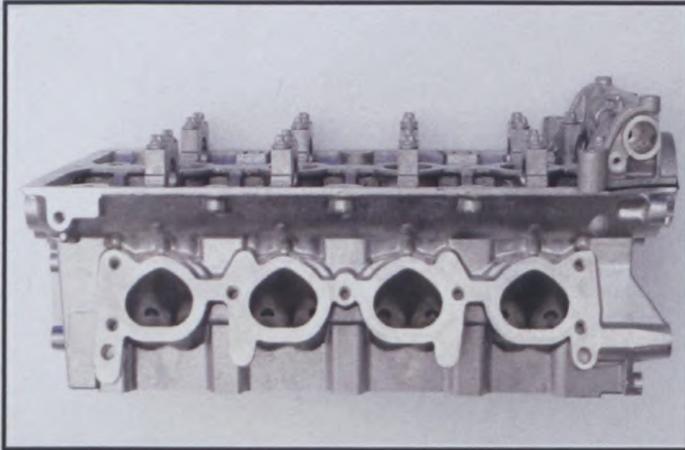
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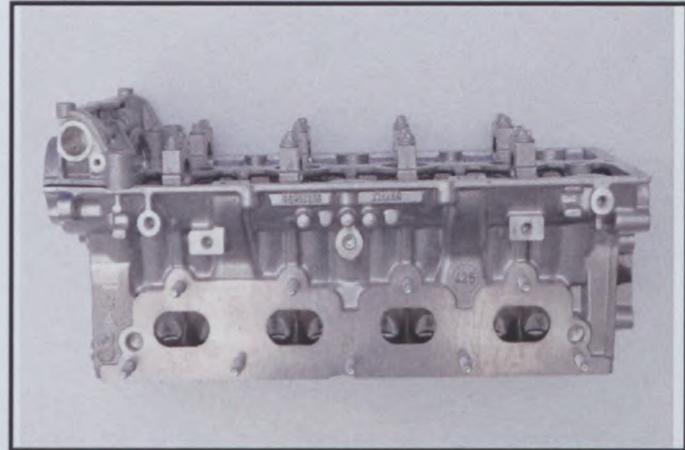
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Cylinderhead coming from Zafira 1,8 Z 18 XER

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

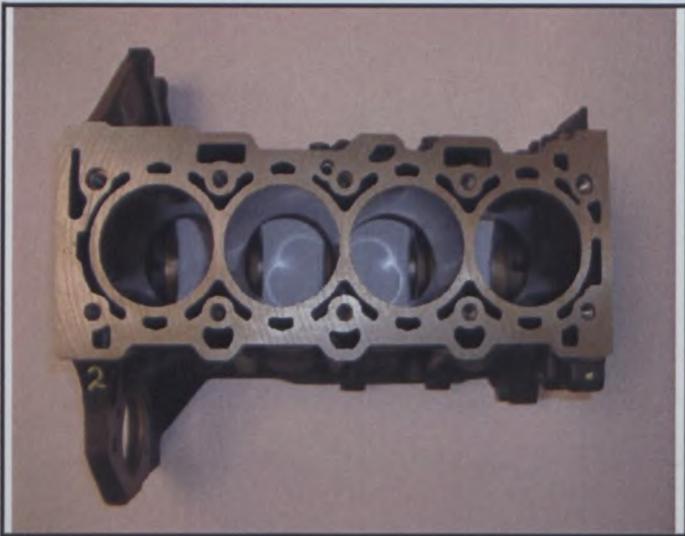


Profil gauche de culasse nue
Left hand view of bare cylinder head

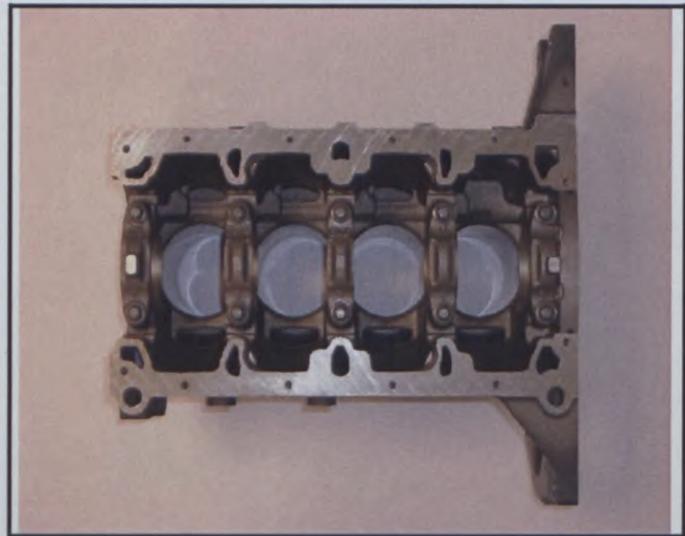


Block coming from Zafira B 1,6 Z16 XEP

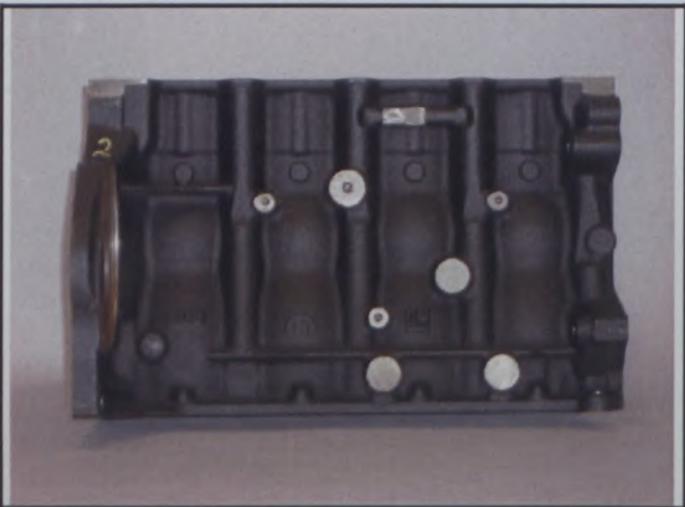
Bloc nu vu de dessus
Bare block seen from above



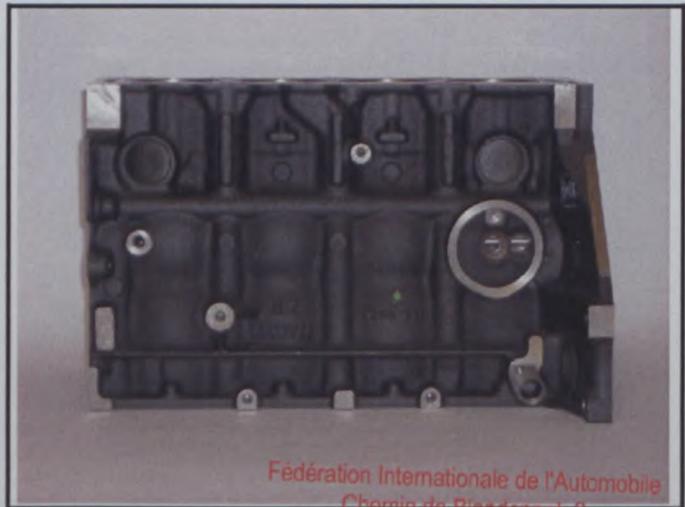
Bloc nu vu de dessous
Bare block seen from below



Profil droit du bloc nu
Right hand view of bare block



Profil gauche du bloc nu
Left hand view of bare block



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Type humides
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Alésage
Bore 79,0 +/- 0.1 mm Course
Stroke 81,5 +/- 0.1 mm

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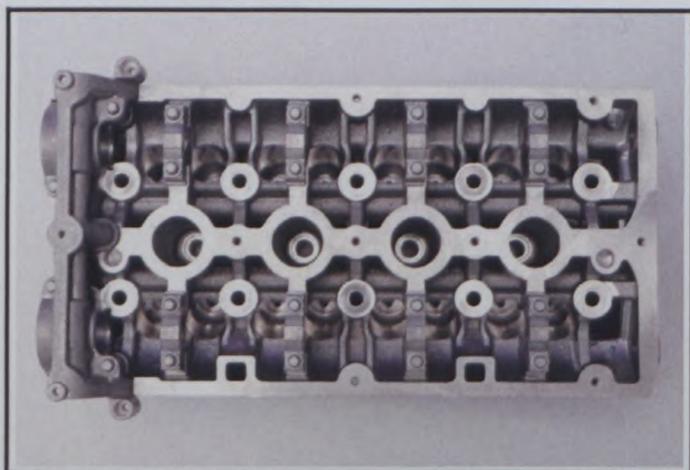
Echappement
Exhaust

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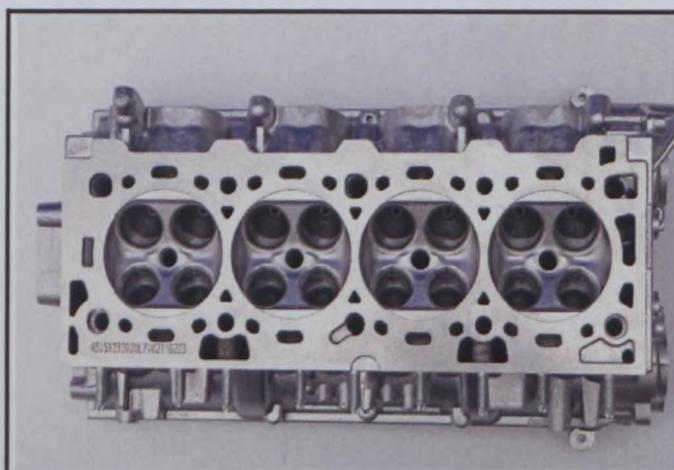
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Culasse nue vue de dessous
Bare cylinder head seen from below



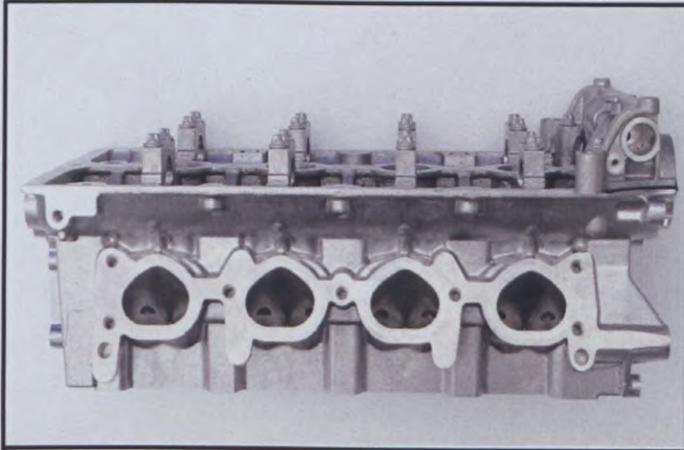
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Modèle
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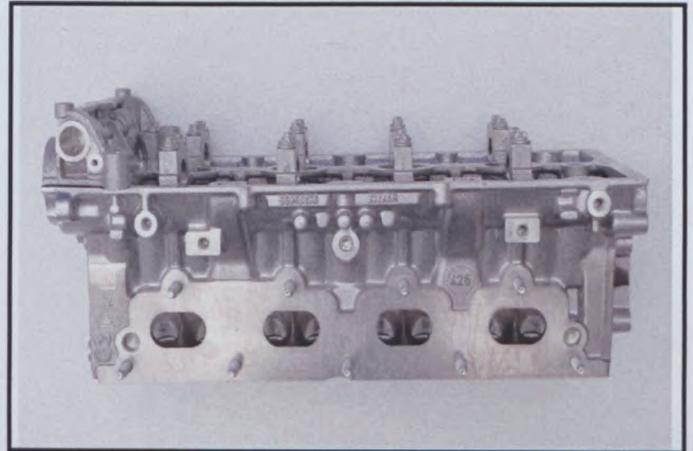
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Cylinderhead coming from Zafira 1,8 Z 18 XER

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

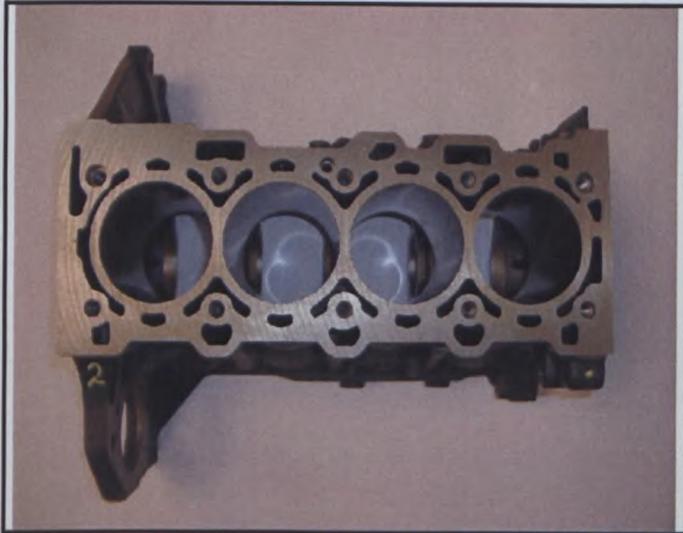


Profil gauche de culasse nue
Left hand view of bare cylinder head



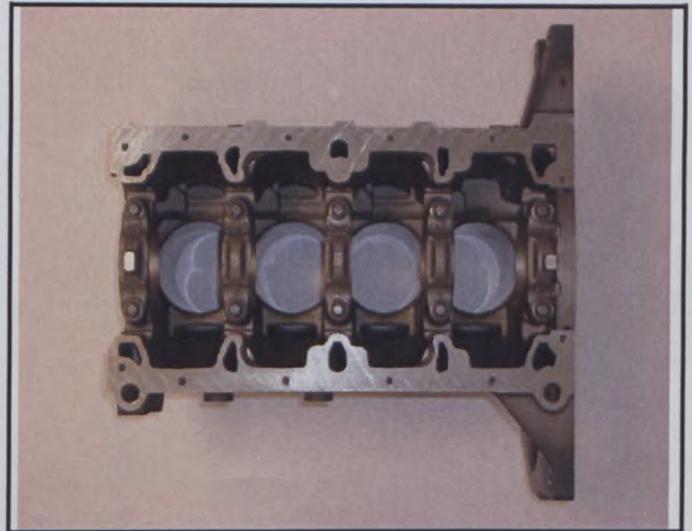
Block coming from Zafira B 1,6 Z16 XEP

Bloc nu vu de dessus
Bare block seen from above

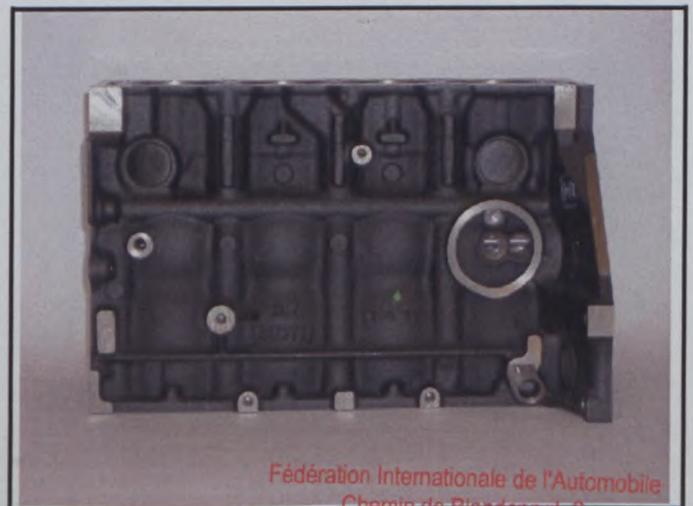
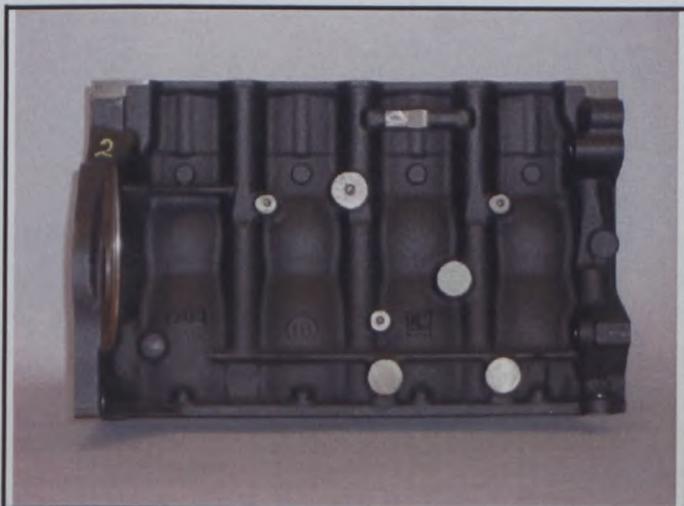


Profil droit du bloc nu
Right hand view of bare block

Bloc nu vu de dessous
Bare block seen from below



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Left hand view of bare block



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