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Santiago, Chile, 21-30 September 1970

CITROR IN LATIN AMERICA 3

presented by

S.A. Aniomobiles CITROM

Organised jointly by the Economic Commission for Latin America (ECLA), the Inter-American Development Bank (IDS) and UNIDO.

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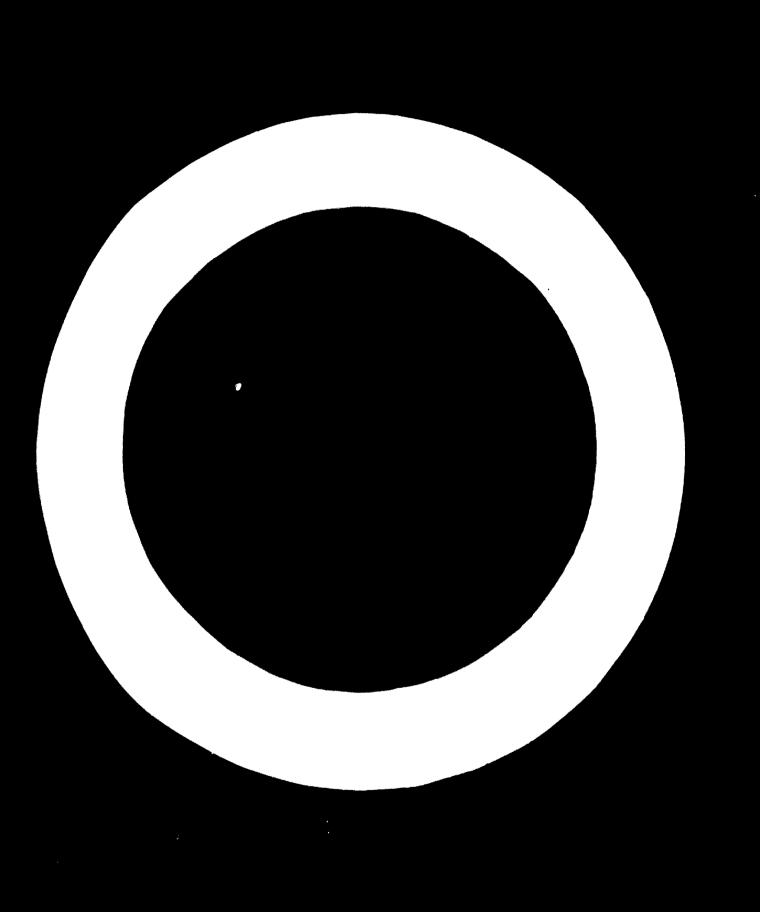
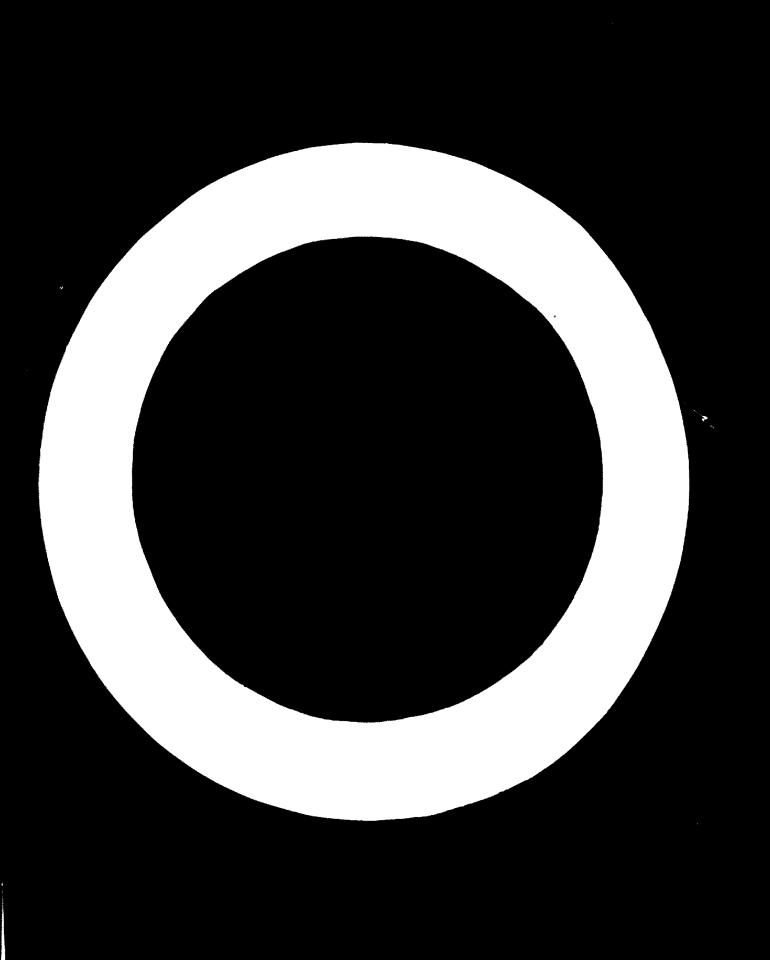


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CITROEN IN LATIN AMERICA

I. INTRODUCTION

Two subsidiaries of Citroën France in Latin America are currently producing popular vehicles of the French 2/3 CV type:

Citroën Argentina in Argentina Citroën Chilean in Chile

This case study is a simple description of how Citroën established itself in these two countries and the results obtained.

The following main guidelines were laid down in 1959 for the installation of plants:

To produce a popular car at least equal in quality to that produced in France, at a minimum cost.

To ensure the degree of national integration imposed by existing regulations.

To select investments strictly with a view to eliminating all unnecessary expenses in obtaining the requisite quality and price under satisfactory working conditions.

To turn domestic industries to the best possible account by helping them to develop.

For the two countries to co-operate with each other, despite all difficulties, in line with the economic agreements linking them within the framework of ALAIC.

To adapt the French vehicle to local conditions of use and market requirements.

In 1959, while envisaging the prospects for Latin America, we considered that industries should be so planned as to meet existing requirements, and that it was more profitable to establish a plant which would be fully utilized then to keep in operation a large-scale plant that would use only a small proportion of its capacity.

Official French rating.

II. CITROEN AKGENTINA

1. Background

In 1959 the Executive established the bases for a motor-vehicle industry in Argentina.

By virtue of Decree N° 12 267 of 30 September 1959, Citroën was authorised to establish an industry in Argentina, which thus became Citroën Argentina S.A.

Successive decrees authorised the "radication" 2 of foreign capital, which up to 31 Jecember 1969 totalled 9.2 million dollars.

The counterpart shares allotted to companies which have "radicated" such capital amount to a value of 5 million dollars.

The authorised capital of Citrolin Argentina is 3 000 million old peace.

In July 1970 the radication of capital plus domestic contributions

amounted to:

Subscribed capital 1 500 million old pesos
Paid up capital 1 454 million old pesos

After Decree N° 12 267 was published in 1959, and taking advantage of the great enterprise and high level of technology of the Argentine firm Pfaff-Bromberg, of Jeppemer, a start was made on the assembly of vehicles with imported components in a workshop owned by the above firm, which became a pilot workshop for Citroën Argentina.

In 1960, motor-vehicles were produced in a larger pilot workshop which Pfaff-Bromberg made available to Citroth Argentina. Domestic components were incorporated in these vehicles, and Pfaff-Bromberg soon started manufacturing parts in its own workshops

In September 1960, Citroth Argentina began to produce motor-vehicles in its own plant in Buenos Aires, where it still operates today.

Contributions of means of production not subject to customs duties or cash payments; in exchange, the contributing company or companies received shares in the Argentine firm. These means, of course, are not available in Argentina.

The premises formerly occupied by the pilot workshop in Jeppener is now producing metal parts, while Pfaif-Bromberg is continuing to develop its production for Citroën Argentina.

At present, more than 350 machine-tools, which form part of the Citrosh tradication" of capital, are producing about 200 parts and/or components in the Pfafr-Bromberg workshops.

This firm endeavours to utilize its equipment at full capacity by manufacturing for other motor-vehicle plants (Fiat, Peugeot).

The fact that production started in a pilot workshop pending the establishment of the Citroën Argentina Plant enabled us to make progress in improving the quality of domestic parts and in local integration.

2. Vehicles produced

(a)	Modela		
	February 1960	AZL Saloon	(2 CV) with a 12 HP SAE engine
	February 1960	AZU Van	(2 CV) with a 12 HP SAE engine
	April 1964	Same models	(2 CV) with a 14 HP SAE engine
	October 1965	. Same models	(2 CV) with an 18 HP SAE engine
	October 1965	AZAM Saloon	(2 CV) with an 18 HP S4E engine
	September 1969	Same apdels	(2 CV) with an 18 HP GAE engine
	September 1969	AX Saloon	(3 CV) with a 32 HP SAE engine
	March 1970	AK Van	(3 CV) with a 32 HP DAE engine
	September 1970	Proposed production of AMF Break	(3 CV) with a 35 HP SAE engine

(b) Prices of vehicles produced to date

		Arg	entina ·			Fr	ance	
		excluding xos <u>a</u> /		Sales rice b/		ce ex- ng taxes	Sal pri	-
Model	P650 8	Dellars	Pesos	Dollars	Francs	Dollars	Francs	Dollars
azam (20V)	5 708	1 427	8 640	2 160	4 401	793	6 743	1 215
ax (30V)	5 950	1. 487,50	9 650	2 412	4 767	859	7 283	1 312
AK (3CV)	5 200	1 300	9 170	2 292.50	4 917	88 6	7 082	1 276

In France: "gross price excluding taxes" ("export agent" sales price).
In Argentina the drawback, the refund of internal taxes and the sales
tax are all deducted. In certain cases, if exports are considered as
supplementing production, the Argentine price can be reduced by deducting
overheads, amortization, etc.

b/ Sales price to the public in the country of origin.

(c) Production from 1960 to 1970

See table in annex.

3. Items manufactured by Citroën Argentina plants in Buenos Aires and by its principal sub-contractors

(a) Citroën plant in Buenos Aires

The most important mechanical parts produced by this plant include:

Motor base

Cylinder-heads

Suspension arm

Flywheel

Coupling lever

Centrifugal clutch gear wheel

As far as the body is concerned, its work includes:

Body assembly

Floor assembly

Door assembly

Door assembly

Trim

General assembly of vehicles

(b) <u>Jeppener plant</u>

The most important mechanical parts produced by this plant include:

Front cross member

Rear cross member

Gear-box casing

Differential casing

Engine cylinder

Braking cylinders

Master cylinder

Starter crown wheel

Valve levers

Intake and exhaust pipes

. Rear gear-box cover

Control lever

Forks.

King pins

Front hubs

Rear hubs

Brake drums

Steering shaft

Steering column

Front and rear seats

Various parts of suspension housing

(c) Other plants

The main sub-contractors are responsible for the following:

Bevel gearing

Tyres

Stampings

/Clutch

Clutch (complete unit)

Mectrical instruments

Firesh

Screws, bolts

Fuel pump

Starter

Alternator

Dynamo

Regulator

Battery

4. Capacity to produce different models

The present production capacity of the Buenos Aires plant is 6 vehicles per hour. With two working shifts totalling seventeen hours a day, its output is 25 000 vehicles in a year of 250 working days.

It can produce either a single model or several of the range of models currently being manufactured.

5. Description of plants .

A brief description of the Citroën Argentina plants and the main sub-contractors is given below.

(a) Citroën argentina plant in Buenos Aires

Citroën Argentina S.A. started operating in the pilot workshop in Jeppener, in the province of Bucnos Aires, on the premises of the firm Pfaff-Bromberg.

Towards the middle of 1960 an industrial establishment was purchased in the city of Buenos Aires (Zepita 3220).

This plant consists of three main buildings of the following dimensions:

Buildings	Land	area	Built area
South	35	000	32 000
North	35	000 .	28 000
East	8	000	8 000
Total	78	000	<u>68 000</u>

The plant is completely equipped with up-to-date facilities for manufacturing, and for controlling its own production and the reception of parts from suppliers. The following description is given of some of its most important features.

South building. The manufacture of bodies, painting and assembly are all concentrated in this building. Body welding takes up an area of over 7 000 m². There are facilities for phosphatic treatment and painting by complete immersion, consisting of six 30 000 litre tanks and a drying over operating at 120°C. The painting is done by immersion in another tank of the same capacity, followed by drying in an oven at 130°C.

The painting facilities comprise:

An area for rubbing down and preparing the metal surface;
A paint-spraying room with regulated temperature and humidity;
A 40 metre tunnel-type oven at 130°C.

Two automatic assembly-lines are used, one 62 metres and the other 120 metres.

The vehicle is then completed and checked on a third 65 metre finishing line.

This building also has space for checking, reception of materials, storerooms, etc.

North building. The following metal parts are produced in this building: motor base, cylinder-heads, clutch, suspension, etc. A special feature of these production lines is that each machine is equipped with very precise self-controlling devices so that the operative himself can control each operation.

Assembly of mechanical components: engine, gear-box, suspension, steering, etc.;

Engine test beds;

Horse power rating test room (Fronde brake);
Workshop for machine-tool maintenance and the manufacture of tool
outfits and appliances;

/The laboratory,

The laboratory, dining-room and kitchens are in a separate building; The administration offices are in a 1 250 m² two-storey building. East building. The following services operate in this building: Spare parts department;

Repairs and after-sales department;

Sales department.

The Buenos Aires plant obtains high-tension electric power from the public system. High tension power is also distributed inside the plant, providing energy to six transformer substations.

(b) Pieff-Bromberg plant in Jeppener

Area :

Land (industrial sector and area used for living quarters) 206 113 m²

Area of industrial sector 47 583 m²

Built area of industrial sector 17 000 m²

On the available land there are not only industrial buildings but also 67 houses and 5 flats for workers! families, and buildings with bedrooms for bachelor staff members. Other buildings include a canteen, a medical consulting room, and dormitories for bachelor staff members.

Ten houses have been huilt for the staff and six others are in course of construction on 8 000 m^2 of land owned by the company in the town of Coronel Brandsen, 14 kilometres away.

The built area in the industrial sector comprises a number of buildings used for:

Security, galvanizing, power plant, tool room, forging, manufacture of seats, stores, manufacture of mechanical parts, heat treatment, carpentry, administration and laboratory, general management, caretaker's room and cloakrooms.

6. Investment

The total investment from 1960 to 1969 consisted of:

	Dollars
Imported facilities	7 987 800
Domestic facilities	11 802 700
Total	19 790 500

The domestic investment calculated for accounting purposes in Argentine peros were converted into dollars at the average rate for each year.

/VEHICLES PRODUCED

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Candative production	*	×.	10 621	85 28	20 20	8 10 0	Z 23	5 9	52 695	67 925	% %
		-									

III. CITROEN CHILENA

1. History

In 1958, Mr. José Illorents founded the Importadora J. Illorente company, consisting mainly of a motor-vehicle assembly plant, in the free zone of Arica. The generous temporary tax exemptions available in this free zone were designed to attract motor-vehicle assembly plants and electronic industries. The plant produced about a hundred plastic-bodied passenger cars.

In 1959, plans were made to assemble a cab-chassis Citroën 20V delivery van (AZU), transformed into a two-door, four-seator vehicle serving as a pick-up van (open bucket trunk). The manufacturing plan, containing technical and financial references and a nationalisation programme, was finally adopted.

In 1960, financial difficulties with regard to the implementation of the plan resulted in most of the shares in Importadora J. Llorente being turned over to two new associates under whom the company made great commercial strides between 1961 and 1964, embarking upon new techniques which enabled it to cater to the requirements of an avid clientels and a hungry market.

In 1962, Decree N° 835 (30 June 1962) was issued establishing a programme of local integration (national content), set at 50 per cent of the f.o.b. value in the country of origin and based on integration and assembly coefficients to be determined annually.

In 1964, faced with the growing difficulty of meeting the minimum national content requirements, the associates transferred their majority share in the firm and their manufacturing authorization to Citroën Chilens.

From them on, the firm began a new lease of life under Citroën France in which the technical assistance afforded between 1961 and 1964 now became technical and commercial management. Further study was made of the possible lity of meeting national content requirements by means of compensated exchanges which were then permitted under the existing bilateral agreement between Chile and Argentina.

Towards the end of 1964, Citroën Chilena sent its first exchange parts to Citroën Argentina for control and acceptance.

/Prom 1965

From 1965 enwards, the existence of Citroën Chilena was thed up with that of Citroën Argentina.

Because of the distance separating the general headquarters an Santiago de Chile from the plant in Arica, a Technical Office was set up in Arica to handle industrial management so as to ensure better administration.

In 1968, special studies revealed that, in order to satisfy real and potential increasing national content requirements, minimum quality standards, growing demand and the increasingly important multinational exchange agreements, it would be necessary to plan a major industrial expansion. This eventually materialized in April 1970. The extension of the Arica plant was to be used for producing stamped and forged parts and certain machanical units.

In 1970, work started on the industrial extension whach, padging from the present rapidly developing economic situation, should very quickly become both profitable and efficient.

2. Vehicles produced

(a)	Models	
	In 1959	AZL saloon (2CV) with 12 HP SAE engine
	In 1964	AZL saloon (20V) with 14 HP SAE engine
	In 1965	AZL saloon (2CV) with 18 CV SAB engine
	•	AZU delivery van (20V) with 18 CV SAT. engine
	In 1969	AZL seloon (2CV) with 18 CV SAR engine
		AZAM saloon (2CV) with 18 CV SAE engine
		AZU delivery van (20V) with 18 CV SAE engine
	In 1970	AZAM saloon (20V) with 18 HP SAE engine
		AX saloon (3CV) with 32 HP SAE engine
		AK delivery van (3CV) with 32 HP SAE engine
		AZU delivery van (3CV) with 18 HP SAE engine

/(b) Prices

(b) Prices of current vehicles

					9	HI	LE					FRA	NCE		
		F			cludi	ing S	Sales	pric	:• <u>]</u>	e/ Pr	ice ex	cluding es	Se	los pr	100
bdel		Esc	udos		Do11.	ars E	scudo s	Do	lla	rs Es	cudos	Dollars	Escu	dos I	ollars
	(2CV)				2 399 2 2 5 0	4	2 731 0 250			•	401 573	793 824	67	43	1 215
e/						icles publi		ex	por	ted.					
(c)	Prod	nc	tion	fr	om 19	59 to	1970								·
Mode]	1 195	9	1960)	1961	1962	1963	19	64	1965	1966	1967	1968	1969	1970
azl azam		,6	1 02) <u>1</u>	187	2 192	1 936	15	33	1 347	720	1 620	1 930	45 2 025	
AX AZU AK					•.				•	3	630	315	855	1 260	
Tota		46	1 02	0 :	1 187	2 192	1 936	1	<u>533</u>	1 350	1 350	1 935	2 835	3 330	4 15
tive tota		1.6	1 56	۸ ۰	2 752	J. 945	6 88 1	L 8 .	L14	9 764	11 114	13 0/40	15 884	19 21/	. 23 369

3. Items manufactured by the Citroen Chilena plant

Arica plant

Body:

Roof hood

Side bonnet panel

Boot

Floor

Boot door

Accelerator pedal

Rear part of the body

Accelerator pin

Body side

Wiring

Bonnet

Headlamp bracket

Seats

Petrol tank

Front and rear mudguards

Plus general assembly of the vehicle.

4. Production capacity of the various models

At present, the Arica plant has a potential production capacity of 3 vehicles per hour which, with two teams working 17 hours per day for 250 working days per year, would mean a possible annual production of 12 240 vehicles.

Although relatively little investment would be required to attain this production level, the chances of doing so are restricted by the low industrial potential of local suppliers.

These production figures are valid either for a single model or for several models within the range currently being manufactured.

5. Description of the plant

(a) The Arica plant

The Arica plant is located on a piece of land with a surface area of:

34 000 m²

/The total

The total built-on surface area is:

19 500 m²

Installed capacity is 3 500 kva.

(1) Original building:

This building is used for the following operations:

- welding, painting and assembly of vehicles
- manufacture of cables
- annex: storerooms, compressed air and industrial gases centre, and administrative offices

The total covered area is 6 660 m².

(2) New building

This is at a very advanced stage of construction and already partly serviceable. It will be used for the following operations:

- stamping body sections
- forging
- machining and assembling mechanical parts
- equipment, maintenance
- control, metrology, laboratories

The total covered area is 11 340 m2.

- (3) Services and administration building:
 - cloakrooms, toilets, dining room
 - administration: management, accounts, planning, methods, etc. The total covered area is 750 m^2 .
- (b) The Santiago supply centre (San Nicolas)

The total covered area of this centre, located in Santiago, is

- Supplies department
- Reception department
- Suppliers' accounts department
- Storeroom and despatch department.

/6. Investments

6. Investments

Up to 1969, investments amounted to approximately 1 200 000 dollars.

The current industrial expansion programme represents an investment of about 4 000 000 dollars which, by 1971, will bring the total invested up to 5 200 000 dollars.

IV. LATIN AMERICAN INTEGRATION

A. Compensation - Complementarity

It was in 1963 that, in view of production possibilities in Chile, Citrolin decided that, from the point of view of a manufacturer, it was impossible to justify the investment that would be needed to attain the local integration percentage required by the Chilean Government.

The Chilean Government then agreed to consider products imported from ALALC countries as national parts, provided that in return Chile was cole to export goods equal in value to those countries.

In 1964, with the agreement of the Chilean and Argentine Covernments, Citrolin began compensation operations. As was done by Mr. Bookel at Karlovy-Vary, tribute must be paid to the Covernments that first introduced this form of co-operation.

Each vehicle consists of:

- a proportion of parts imported from Murope
- a proportion of national parts produced by one of the countries at a rate sufficient to satisfy domestic requirements
- a proportion of Latin American national parts produced by both countries at a combined rate sufficient to permit the exportation of part of them to the other country
- a proportion of Latin American parts entirely imported from the other country.

/These proportions,

These proportions, considered in terms of their equivalent French value, can be expressed as a percentage of the ex-France price of the complete vehicle

B. Citroen Argentina

1. Argentine integration

The evolution of the local integration percentage of Citroën Argentina between 1960 and 1965 is as follows:

Model	1960	1961	1962	1963	1964	1965
AZL	37.6	43.2	57.2	72.5	88,3	92.6
azu	37.6	43.2	52.0	71.9	87.9	92.6

In 1970, expressed as a percentage of the total wholesale price, excluding taxes, of the complete vehicle, local integration was as follows:

		Model	•
	AZI/A53	AK/1:28	AZAM/1128
Parts imported from Europe	6 ,58	7.96	7.43
Non-exported Argentine parts	68,44	38.75	40.11
Latin American Argentine parts	21.55	50,29	48.61
Chilean parts	3.43	3.00	3.15
Total	100.00	100.00	100.00
Total Argentine parts	89.99	89.04	88.72

This corresponds to the Export Agent price and is not subject to French taxes and duties, i.e. the wholesale price exclusive of all taxes.

/2. Items

. .

2. Items manufactured on a compensation basis

The items manufactured by Citroën Argentina to satisfy the requirements of both Argentina and Chile are as follows:

(a) Manufactured items

Floor unit

Side panels

Door frames

Doors

Apron unit

Suspension arms

Flywheel

Coupling level

(b) Assembled 1 tems

Front axle unit

Rear axle unit

Suspension housing unit

Motor and gear-box unit

Set of pedals

3. Investment

As a result of its compensation arrangements with Chile, Citroën Argentina has cut down or postponed its investment programme. In the case of the AMF station wagon alone, investment was cut by about 300 million Argentine pesos (750 000 dollars), not including a roughly similar reduction in investment by the local suppliers.

4. Production costs

In certain cases the increased orders necessary to satisfy the combined requirements of Argentina and Chile under the compensation arrangement have enabled the Argentine suppliers to reduce their sales price to Citroën Argentina.

/Certain specific

dertain specific mases of price reductions are given below:

Part No		ce for Argentina (new pesos)	Price for Chile (new pesos)	Reduction (percentage)
A 721-120/130a	Centre bracing	1.83	1.62	11.5
A 721-122/122a	Contre bracing	1.56	1.34	14.10
VAZ 852-2	Bonnet (M.C.)	21.00	19.50	7.14
AM 7/4-83	Front mudguard	1.00	0.90	10.00
A 381-2	Matre socket	2.28	0.64	71.92
A 324-9a	Spring	1.77	1.33	24.85
4 <i>8</i> 0-8	Screw	0.40	0.28	30.00
620-002	Bearing	4.59	3.90	15.03
10-482	Bearing	8.26	7.02	15.01
89-964	Bearing	10.63	9•35	12.04
AZ 5650 04	Windscreen wiper	44.37	36.48	17.78
AZ 564-50e	De-icer	8.00	5-34	33.25
AZ 535—1b	Regulator	17.45	13.09	24-98
s/nº	Clutch and clutch plate unit	51.92	24.00	53.7 7
V 416-04	Wheel	14.00	10.80	22.35
A 344-01	Mitre wheel gearing	76.20	35.00	54.06

Production costs have also been reduced as a result of adding the parts required by Citroën Chilena to the items manufactured by Citroën Argentina. Parts of mechanical units produced by Argentina for both countries have an fact cut costs by about 6 per cent.

From 1967 and 1970, the complementarity arrangement between Argentina and Chile made it possible partly to offset the higher price of supplies by increasing the demand for them.

/It must

It must be remembered that, during the period in custome, wholesole prices in the rural sector rose from a level of 380 to 510 thereas the prices of vehicles did not vary to any great extent. This condens y an inter-concle prices to take the take was not due entirely to experts to Unico, but there can be no doubt that these along with the increase in expertancie own production, were largely responsible.

G. Citroën Chilena

1. Chilean integration

Letween 1966 and 1969, strictly Chilean national integration, expressed as a percentage of the total wholesale price, excluding taxes, of the complete vehicle, was as follows:

Model	1966	1967	1963	1969
AZL	37%	ing. Zin	j ()	36%
In 1970 local i	ntegration as as	follows:	MANATA YA MALA MANASANIYA MALAKATA KATALARIA MALAKATA MALAKATA MALAKATA MALAKATA MALAKATA MALAKATA MALAKATA MA	na Amerika na mangapak kalangan kapab Amerika Managan Amerika Managan Amerika Managan Managan Managan Managan
generally made state, were substitute was an english statement in substitute and was			Model	andetick - hve ik gi ttledt holedele <mark>dele</mark>
			AZI	
Parts imported from E	duro pe		31%	
Non-exported Chilean	part s		35%	
			6%	
Latin American Chiles	m parts		من	
Latin American Chiles Chilean parts	n parts		28%	
	m parts		,	

2. Items re anatured on a compensation basis

The following items were manufactured by Citroën Chilena to satisfy the requirements of potn Chile and Argentina:

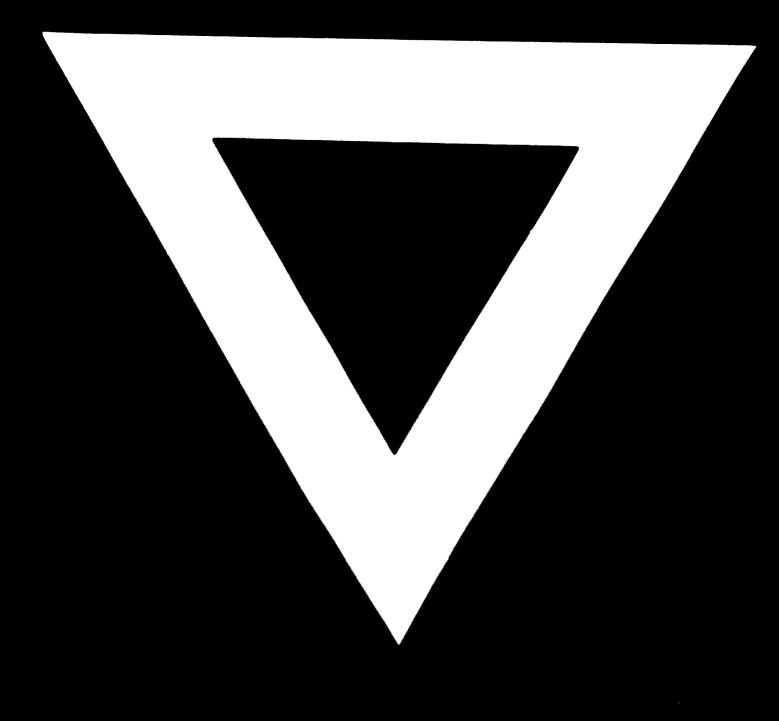
Vertilator - plastic parts
Side bonnet panels, floor, sheat metal parts
Headlamp brackets
Electric wiring
Petrol tank
Forgins

3. Investment

As a result of its compensation arrangement with Argentina, Citrosa Chilena has cut down or postponed its investment programme.

It can be estimated that, to attain a production rate of 30 vehicles per day, or 7 000 per year, with a national content of 75 per cent and under existing economic conditions in Chile, some 9 million dollars would have had to be invested to satisfy Chile's requirements alone, quite apart from those of Argentina.





26.6.72