

Cylinder Cadillac

(Type 51)

The matchless mode of motoring reserved to only a few privileged persons in the Old World (at an almost prohibitive price) developed by the Cadillac Company for American motorists!



'The sweetest running car in the World!" This is the verdict of those who have experienced

The Eight

the super-luxury of the Cadillac Eight. The old Cadillac saying. "Just get in and ride."

applies with greater rignificance now than ever before. In the High-speed High-efficiency Eight-cylinder V type engine, there are eight power impulses during each complete cycle-one power impulse every quarter turn of the fly-wheel.

There is no intermission between impulses but rather an overlapping so complete that one melts or merges into another. The torque therefore is constant and As the Cadillac softly speeds along under the almost

magic influence of this new power-principle, the sensation is as unique as though you had never motored It is useless to try to depict in words, thrills which

you have never felt or to pottray a degree of ease which you have never experienced. Nothing but your first memorable ride in the new Cadillac Eight can reveal the wealth of motoring lux-

ury which this car affords As you sink into the soft, yielding cushions, you become encaptured in that delightful sensation of floating through space. You revel in exceptional relaxation and ease, oblivious to the wonderful mechanism which gives you motion.

The doors are wide and easy of entrance and exit. The tonneau is large and roomy, the year seat accommodating three passengers comfortably,

In the seven passenger car, there are two comfortsble extra seats, which fold into recesses, and are con-

cealed out of the way when not in use. The tilting steering wheel, which is on the left

side and the position of the control levers, make it nomble for the driver and front seat passenger to enter the car at either side.

The year change lever and the hand brake lever are in the center. They are set well forward, facil itating entrance and exit, yet are within easy reach of the driver. The switches for the electric lights and for ignition

are located conveniently on the cowl board. A predal button in the floor brings the electric cranking device into action.

The multiple disc clutch is soft and velvety in operation. The car starts with ease and smoothness.

without jerk, shock or jar. The shifting of genrs is easy and quiet. After getting under way, which is only a matter of moments. one rarely has occasion to change gears unless at times. perhaps, to meet some unusual or extreme condition.

The steering is steady and positive; the natural inclination of the car is to travel straight ahead.

The brakes are powerful, yet easy of application. In operation you enjoy the widest flexibility. From less than three miles an hour in crowded city streets

and convested traffic-without change of gears and without nursing or especially skillful manipulationto more than sixty miles an hour on the open highway has been demonstrated to be the range.

The Cadillac Eight is a car of practically throttle control, of sapid and easy acceleration. From a snail's pace to the speed of the wind, without apparent effort, without hexitation, without fremer.

Comfort is subserved in the highest degree by the absence of vibration, the soft upholstery, the yielding springs, the large wheels and tires, the easy control, the unusual flexibility, the extreme smoothness accentuated by the worm bevel driving gears, and the quiet-

ness of motion. Good coods yield up a velver quality of travel undersmed of.

Bad roads lose much of their terror and hills seem almost to flatten out before you, so easily, so smoothly, so quietly and with so little apparent effort does the car surmount them.

The supreme motoring experience of your life awaits you when you take your first ride in this truly remarkable car

The Cadillac Eight Cylinder V Type Engine

The ultimate in motor car engines. Such is the verdict

Building and experimenting in case, with every type from the single cylinder to the six, and from the proper to the

Beyond that, Inomed for us only one hope and possibility -the promise of a motor in which there would be no layer,

We sought the medium by which the Cadillac would be endowed, not with approximate freedom from goat shifting, or approximate hill-slimbing ability on high, or approximately

or approximate bill-timines; about on high, or approximately suift actoleration, but with the highest possible form of those three characteristics. The Cadillac already possessed those qualifications in point beyond which it was not possible to go.

This reminerant pointed straight to un sight calleder

How felly these luxuries of travel have been achieved,

There see two blocks of feer cylinders each, mounted There see two blocks of flow cylinders exist, months on the crank case at an angle of 90 degrees to each other-from whence the designation. "V type."



CADILLAC EIGHT CYLINDER V TYPE ENGINE

There is but one crankshaft and one cameloit. Three are eight cams on the camelait.

In firing, there is a power impulse from a cylinder on one side, followed by an impulse from a cylinder on the opposite side, the firing alternating, first one side and then the other.

This gives eight impulses to each complete cycle (of two revolutions) or, in other words, one impulse every quarter turn of the fly-wheel.

quarter turn of the fly-wheel.

The advistage, of course, lies in the fact that there is an intermission between impulses. The torque is constant and the flow of power is continuous. This gives an regare in which eitherston in practically mit, whether at fow

engine in which eiteation is practically nil, whether at los of high speeds.

The cylinder hore is 31% inches and the piston stroke i 55% inches, giving a total piston displacement of 31% enliteration.

The horsepower is computed by the Society of Automobile Engineers formals is 11.25. This formula, however, is not competent for computing the power of this engine, dynamouster texts showing it to develop in executions of sixty hotsepower.

If there has been any one sharle feature in which, more

than another, the Cutillac Company has been acknowledged as occupion a position of pro-eminence, it has been in the design, execution and efficiency of its engines.

The present type, like its predecessors, is the product

The present type, like its predecessors, is the produof that decision of the Cadilloc plans which during the putwelve years his produced a greater number of high great internal combustion engines than any other motor car plain the world.

The cylinders are east in two blocks of four cylinders are having super channers and state smallfolds integral. They are cost from a speedl grade of additional control of the cylinders and the cylinders are consistent to the cylinders. This metal has a fine disse grain and possesses the cylinders research in our laboratories. This metal has a fine disse grain and possesses were consistent to the cylinders of the cylinders and possesses which are consistent to the cylinders of t

eastings.

In casting the cylinders, the utmost precasalon is exercised that the cylinder walls shall be of uniform thickness in order to facilitate uniform cooling throughout their surfaces. Forther precaselously measures are taken to obtaine

The cylinder heads are provided with openings which afford access to the piston heads and combustion chambers, thereby localizating the removal of carbon deposits.

Cylinders are accurately ground to a glass-like surface. The pistons are cast in our own foundry, from a special rade of metal of our own formula. Many years experience as shown this to be the best metal we know for the partons

All pixtons are accurately ground.

We are special steel pixton sings in untilple, there being there rings in each of the three ring graves of each pixton. With the cylinders and pixtons, ground to 1/1000 of an open accuracy and the steel poston rings ground to equal

och accuracy and the steel poton rings ground to equal servision, we obtain the maximum benefits of combustion. The cranicose is cast of special copper alby aluminum. The cranicosat is 21% inches diameter. It is mode of pecial circums sicked alboy exec, hear treated and power-ser-

ocial chrome nickel alloy steel, heat treated and possessica usual strength and toughness. Its bearing surfaces are contactly ground.

It is supported by three reinforced bronze, balblit lined

trainings of internal proportions.

Its length is but 15th inches between the orter ends of
its forward and near bearings. With this relatively short length, the periodic vibleration or threshing which has proven
a disastrous in engines requiring a long crathcolaft, is overcome.

The cylinders being of the L head type, the infet and exhaust valves are all on the same side of the cylinder flocks.

The valves are actuated by a series of rocker arms provided with hardened steel rollers which are actuated by

a single cam shaft positioned directly above the crankshaft. The cam shaft is driven by a silent chain from the crankshaft.

The exhaust values are flat head type, made of Tunguten

The inlet valves are tully shape to facilitate the intake of gas.

This fatter is an example of the extreme degree to which attention has been devoted to details. And it is the case exercised in the reforement of such sould retail that

This was power plant-engine and transmission is monated in the classic by our three point surprises on the The near points are bolled to the frame and the forward point are bolled to the frame and the forward point are to be proposed to the frame and the forward point and the forward point and the frame which contributes materially to



CADILLAC UNIT POWER PLANT

EIGHT CYLINDER V TYPE EIGHR, TRANSMISSION, CRANKING DEVICE, CLUTCH AND

REARF LEVERS, CHAPT CHAPT AND HARD REARF LEVERS.

Ample strength homever has not been sacrificed for the

One needs but to see this engine to autocriste its con-

LUBRICATION.

The engine labrication is by our force feed circulating

The canoliaft is inheleated by gravity feed from a supply of oil which is carried through a pipe extending parallel with and above the shaft. The pistons, cylinders and piston pins are labelcated by

The car is liberally supplied with intricating facilities CARBURETION.

The matter of scientific Custometion is but one of the

years devoted its entire attention to the development of The present Carboretor is the result of vast experience

The Carturetor is situated directly above the engine

Maxing in mind the essential factors of flexibility to meet

tion and economy, as well as simplicity, results would indi-cate that we have progressed in the matter of Carlonetion to a point where it would seem that there is practically little if anything more within the samps of practically

FUEL SYSTEM.

COOLING.

The cooling system consists of the Cadillac tubular and

There are two impeller pumps, one on either side of the

The clutch is our multiply disc devolute type, comist-The operation of the elatch is unusually soft and smooth.

without shock or jerk. TRANSMISSION.

The transmission is built in unit with the engine. It is the selective type, sliding gear, three speeds forward and reverse. All gears accurately can and ground. For further details, see "Specifications in Brief" on tast

Specifications in Brief

ENDING-Tiple cylinder V tipe, High-parel, High-pri-fourt, Endus and Transaction half in role for press incremine. Visit contents and transaction half in role for the principle of the con-lement integral, it is all hards in Januar University of endustrations in the principle of the contents of the con-tent of the contents of the contents of the con-tent in the contents of the contents of the con-tent of the contents of the contents of the con-tent of the contents of the contents of the con-tent of the contents of the contents of the contents of the contents of beautiful for the contents of the change. Contents of principle of the contents of the contents of the change of the contents of the con-tent of the contents of the change of the contents of the change of the con-tents of the contents of the change of the con-tents of the contents of the change of the con-tents of the contents of the change of the con-tents of the contents of the change of the con-tents of the change of the chan

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STYLES AND PRICES

Studied Seem passenge and Fire passenge cars, Four passenger Salan and Roadser, \$1975. Landaulet Coape, \$2500. Fine passenger Sedan, \$2800. Seven passenger Standard Linopine, \$1450. Befix true Linuxine, \$3500. Prices F. O. B. Detwis.