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The Fairbanks-Morse 38 8-1/8 is a diesel engine of the two-stroke, opposed-piston type. It was developed in the 1930s, and is similar in arrangement to a contemporary series of German Junkers aircraft diesels . [2]

Fairbanks Morse 38 8-1/8 diesel engine - Wikipedia

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The Advanced Combat Engine (ACE) project is a joint venture between Cummins and California-based Achates Power, who has designed an opposed-piston engine that works on a two-stroke combustion cycle...

Cummins developing revolutionary new diesel engine for U.S ...

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1914 Simpson's Balanced 2-stroke engine An opposed-piston engine is a piston engine in which each cylinder has a piston at both ends, and no cylinder head. Petrol and diesel opposed-piston engines have been used, mostly in large scale applications such as ships, military tanks and in factories.

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Opposed-piston engine - Wikipedia

Part 1 - Scavenging Performance of a Two-Stroke Opposed-Piston Diesel Engine - Duration: 9:25. Achates Power 10,122 views. 9:25. 1177 BC: The Year Civilization Collapsed ...

Part 2 - Scavenging Performance of a Two-Stroke Opposed-Piston Diesel

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Achates Power announced that it has achieved ultra-low emissions with its 10.6-liter two-stroke diesel. The opposed-piston engine reached an ultra-low NOx standard of .02 g/bhp-hr in the company's San Diego-based lab and will enter a fleet testing phase early next year with Tyson Foods and Walmart in

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Achates near-zero diesel engine to be tested in a ...

The OPOC engine is an opposed-piston opposed-cylinder, 2-stroke engine. It consists of two cylinders with a piston at both ends. It has no cylinder head, so there are no valves. Each piston travels

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about half the distance of a cylinder in a conventional engine.

Innovative OPOC Engine: Opposed Piston Opposed Cylinder ...

For the last 14 years, the San Diego-based company has been busy working to improve the opposed-piston engine with one of its variants being a two-

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stroke diesel, a lesser-known oil burner dating back over 100 years to its inventor Rudolf Diesel and more typically found today in marine applications. Achates' opposed-piston engines have no cylinder heads and no valve trains.

Two-stroke diesel project underway

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An unknown automaker has inked a deal with Achates Power to produce its unconventional opposed-piston engine, which promises greater efficiency. ... turbocharged 4.9-liter two-stroke diesel ...

At Least One Automaker Plans to

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Produce an Opposed-Piston ...

The 2.7L OP Diesel Engine in a light-duty pickup will achieve 42 MPG (CAFE Combined) and 37 MPG in the OP GCI. ...
Opposed piston, diesel fuel, 2 stroke. -
Duration: 3:30.

FIRST DRIVE: Achates Power 2 7L OP Engine

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Opposed-piston diesel engines are rare enough at this size, the rocker lever arrangement was almost unheard of. Probably the only engine using a similar arrangement was the pre-war Sulzer ZG9. This was an opposed-piston engine with a choice of two, three and four cylinders (2ZG9, 3ZG9, 4ZG9); the two-cylinder version developed 120 bhp.

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Commer TS3 - Wikipedia

Research has shown two-stroke opposed piston engines to be wildly efficient. 3 cylinder designs are the most efficient, and it's possible to achieve brake thermal efficiencies as high as 55%, a...

Opposed Piston Diesel Engines Are

File Type PDF Opposed Piston Two Stroke Diesel Engine Advantages In **Crazy Efficient**

Published on Jan 11, 2012 Opposed piston 2 stroke diesel engine, inspired by the Junkers Jumo 205D concept. The engine has 6 cylinders, 12 pistons and 2 crankshafts. I recommend you to watch from...

Opposed piston 2 stroke diesel

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Advantages In **engine animation (Junkers Jumo 205 concept)**

The Napier Deltic engine is a British opposed-piston valveless, supercharged uniflow scavenged, two-stroke Diesel engine used in marine and locomotive applications, designed and produced by D. Napier & Son. Unusually, the cylinders were disposed in a three bank triangle,

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with a crankshaft at each corner of the triangle.

Napier Deltic - Wikipedia

Opposed-piston engines(OPEs) have been around a long time—more than a century to be exact. First manufactured in 1890, these engines continue to be used in ground, marine and aviation

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applications worldwide. Unlike traditional four-stroke engines, OPEs combine two pistons per cylinder, working in opposite, reciprocating motion.

A Historical Look at Opposed-Piston Engines - Achates Power

It has twelve cylinders, each containing two opposed pistons. Two-stroke

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opposed-piston engines have inherent efficiency advantages stemming from the absence of cylinder heads, which means the combustion chamber has a lower surface-area-to-volume ratio than a conventional engine, and the fewer strokes per cycle compared with a four-stroke engine.

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New Opposed Piston Engine from Fairbanks Morse

A similarly sectioned Junkers Jumo 207 aviation Diesel engine. These engines all used a two-stroke cycle with twelve pistons sharing six cylinders, piston crown to piston crown in an opposed piston configuration. This unusual configuration required two crankshafts,

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one at the bottom of the cylinder block and the other at the top, geared together.

Junkers Jumo 205 - Wikipedia

No spark plugs, either -- the Achates design uses compression ignition like a diesel, but runs on gasoline. The Achates opposed piston engine places two

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opposed pistons in each cylinder. Note the...

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