

CASE STUDY

Customer: A leading global manufacturer of agricultural and construction machinery, engines and drivetrains for heavy equipment and lawn care

Industry: ACE (Agriculture, Construction, Earthmoving)

Application: Oil Pan for Diesel Engine

Fluid: Engine oil

Solution: Select-A-Seal®

Significant warranty claim reductions on OEM's largest volume engine

CHALLENGE

The OEM had a significant number of warranty claims on its 4-cylinder diesel engine. Warranty claims are quite costly and negatively impact the OEM's bottom line and brand reputation. The OEM's Warranty Service Center reported that the claims were due to a leak in the engine's oil pan. When they pulled the engine apart for further diagnosis and repair, they realized the leak was from oil weeping through engine T-joints. T-joints are particularly difficult to seal due to assembly tolerances and design constraints.

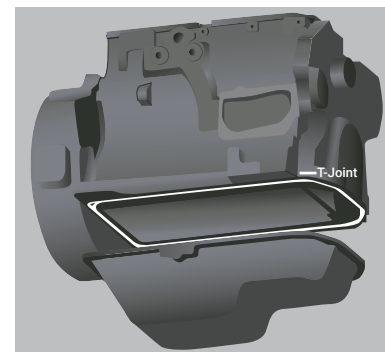


SOLUTION

The OEM switched to one of Lydall's Select-A-Seal gaskets for the oil pan because they have a very soft rubber sealing element that can improve T-joint sealing by helping 'fill the gap.' Lydall designed and verified with FEA that a new Select-A-Seal gasket would withstand the application conditions. The new gasket then passed all OEM bench and field tests and was released for production.

RESULTS

Data suggests a significant decline in warranty claims related to the seal leaking. After successful implementation on this oil pan, the OEM approved Select-A-Seal gaskets on several other applications.



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Alkegen
Headquarters
5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039
Telephone: 716-768-6500
Website: www.alkegen.com
Email: info@alkegen.com