

Case Study Engine Oil

Cummins X12 FEV



490hp power

2300 Nm torque

Euro VI China VI Global Product

TANDARD

A Cummins X12 engine installed in an independent test laboratory.

A test program designed to evaluate the performance of CuGlide[™]-powered synthetic no-SAPS SAE 10W-30 and 0W-30 oils versus an approved 10W-30 API CK-4 & Cummins oil ("Standard Oil")

NEOL 10W-30 subjected to a 300-hour cyclic endurance test according to Cummins test protocol, and a total of 464 hours of operation.

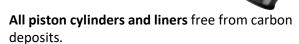
The turbocharged Cummins X12 engine with its lightweight design is a productivity champion, with industry-leading combination of impressive power and efficiency.

An ideal engine for a variety of commercial vehicle applications from regional haul to vocational trucks to bulk intermodal transportation of heavy loads.

CuGlide™ x Cummins X12 provides OEMs and end users with an opportunity to migrate to a no-SAPS engine lubricant technology!



With no ash, no phosphorous, and no ZDDP, the NEOL SAE 10W-30 performed at the same level as the Standard Oil before and after undertaking a 300-hour endurance test.



- "No harm" performance of using a SAE 0W-30 viscosity grade oil in the Cummins X12, with a marginal improvement in friction torque (1.5%).
- Marginal improvement (0.8%) in torque and power.
- Equal fuel consumption as the approved Standard Oil.
- Excellent control of oil oxidation, nitration, and acidity after 1200 test cycles in the endurance test.
- Equivalent to the Standard Oil on all measured exhaust emissions.

This case study successfully demonstrates the performance capabilities of a revolutionary engine lubricant in a 11.8L diesel engine produced by a global leader in engine solutions.

With ultra-low TBN, no-SAPS, and no-ZDDP, Neol's ground-breaking oil technology prolongs the efficiency and life of the ATDs and protects environmental health.

CuGlide[™], a ground-breaking no-SAPS product which delivers engine performance and efficiency in Euro VI engine hardware whilst providing health benefits to exhaust aftertreatment devices and protecting the environment from toxic zinc.

It's time for change.

For more information on Neol's innovative lubricant technology contact www.neol.world