meeting API and ACEA requirements
Interchangeable and linked group II base oils

In accordance with API and ACEA protocols, Saudi Aramco has successfully completed test programs that demonstrated the interchangeability and linkage between Group II base oils from our global manufacturing sites. The extensive testing programs covered API SN/GF-5, API CJ-4 and ACEA A3/B4 automotive engine oils together with demonstration in industrial and gear oils applications. Engine tests to meet ACEA E7 and E9 are currently underway with completion expected Q1 2019.

Automotive Engine Tests

Sequence IIH Engine Test (API SN/GF-5)
Viscosity increase (cSt@40°C)

Sequence IIH Engine Test (API CJ-4)
Weighted Piston Deposit (merit rating)

European Engine Test (ACEA A3/B4)

Volkswagen TDi (CEC L-78-T-99)
4 cyl, 1.9L, turbocharged, direct injection

Peugeot TU3M (CEC L-38-A-94)
OHC, 4 cyl., gasoline, 1.360cc

Mercedes Benz OM646LA (CEC L-099-08)
4 cyl., 2.2L, VTG turbocharged, direct injection

Driveline & Industrial Oxidation Tests

Total Acid Number
Ford ABOT

AW Hydraulic
RPVOT

R&O Type
Industrial Gear Oil

Marine Oil
KOMATSU Hot Tube

Railroad
PDSC

The Group II base oils show satisfactory performance in various API and ACEA engine tests across a number of metrics including oxidation, anti-wear, piston cleanliness, and sludge formation resistance using suitable additive technologies.