



# NEXT GENERATION TURBINE OILS BASED ON SHELL GAS-TO-LIQUID (GTL) TECHNOLOGY



## WHEN COMPARED TO TYPICAL TRADITIONAL GROUP II/III BASE OILS\*

### SHELL GTL BASE OIL

A high-quality base material used in Shell's premium finished lubricants



Higher viscosity index



Better additive response



Lower volatility



Better oxidation stability when additivated

### WHY GTL?

Base oil produced from purified natural gas at a molecular level results in a significantly more consistent and stable product than conventional base oils



### BENEFITS OF USING TURBINE OILS WITH GTL BASE OILS\*\*



Enhanced system efficiency



Enhanced protection



Longer oil & equipment life



Less equipment wear

## TODAY'S TURBINES NEED TO WORK HARDER THAN EVER BEFORE



- Greater demand for less downtime, extended oil-drain intervals and efficiency improvements
- Turbine sump volumes are shrinking in size while handling the same or increased power
- Cyclic operating conditions are placing more stresses on turbines
- Increased operating temperatures drive requirements for greater component protection
- Increased load on gearboxes

## BENEFITS OF THE SHELL TURBO S4 RANGE OF TURBINE OILS

### EXTENDED OIL LIFE

Exceptional resistance to degradation



- To help keep your turbine working for longer. In tests, Shell Turbo S4 X performed twice as well as the industry standard.

### EXCELLENT EQUIPMENT PROTECTION

Long-term resistance to formation of sludge & varnish



- To help reduce the risk of bearing temperature issues and control valve positioning problems.

### EXCELLENT SYSTEM EFFICIENCY

Rapid air release, rapid water separation, foaming resistance



- For effective lubrication over a wide temperature range and reduced opportunity for corrosion to occur.

ALL HELPING TO MAKE TURBINE OPERATION MORE EFFICIENT

\*There are five technical groups of base oil defined by the American Petroleum Industry (API) based on saturates and sulphur levels, and viscosity index, namely API, I, II, III, IV, V

\*\* When tested against market representative products