Schiehallion
Crude oil from the UK’s Quad 204 development
Introduction to the Q204 development

The Schiehallion and Loyal oil fields are located in the UK’s Quad-204 sector, approximately 100km west of the Shetland Islands. Production began back in 1998 when oil was exported from the Schiehallion FPSO (floating production storage and offloading) vessel to the Sullom Voe oil terminal in the Shetland Islands, before onward delivery to customers around the world.

In 2013 production was interrupted to allow for the refurbishment of the subsea system and replacement of the FPSO with a new vessel called the Glen Lyon. The new facilities allow for enhanced and more reliable exports.

Transportation and trade

Production is due to re-start in 2017, and will reach an average of 100,000 barrels per day at plateau. Schiehallion crude will be exported from the Glen Lyon and taken directly to market by shuttle tanker, initially to the port of Rotterdam in the Netherlands.

Schiehallion has dedicated storage tanks at the Vopak terminal in Rotterdam to assist in the aggregation of crude volumes and the management of parcel sizes.

Crude oil will typically be sold in-tank or ex-ship at Rotterdam with standard parcel sizes of 600,000 barrels. The port of Rotterdam is ideally positioned to serve both local ARA and North Sea refining markets. It is expected that Schiehallion will attract many customers from around this region, but it aims at being adopted by refineries worldwide, given its enviable properties and reliability of supply.

BP is operator of the development and has a working interest of approximately 34%, along with Shell (approx. 55%) and Siccar Point Energy (approx. 11%).
Schiehallion crude

Schiehallion is the marketing name for the crude oil blend exported from the Glen Lyon FPSO. The component fields, Schiehallion and the smaller Loyal, are very similar in quality and the export blend is a heavy, low sulphur and low acidity crude oil. Quality is not expected to change materially during the life of production.

Key properties

The key properties of Schiehallion are compared here against some other grades. It is a heavy crude oil, with a gravity of around 25º API. The sulphur content is 0.46%, which is similar to other North Sea grades such as Brent or Clair, but much less than mainstream sour grades like Urals. Other properties such as pour-point, viscosity and metals are easily manageable by most of refiners, making Schiehallion a reliable, high quality grade to add to your basket.

<table>
<thead>
<tr>
<th>Key properties*</th>
<th>Schiehallion</th>
<th>Foinaven</th>
<th>Clair</th>
<th>Brent</th>
<th>Urals</th>
</tr>
</thead>
<tbody>
<tr>
<td>API Gravity</td>
<td>25.2</td>
<td>26.8</td>
<td>23.6</td>
<td>37.5</td>
<td>30.2</td>
</tr>
<tr>
<td>Sulphur (%wt)</td>
<td>0.46</td>
<td>0.37</td>
<td>0.46</td>
<td>0.40</td>
<td>1.61</td>
</tr>
<tr>
<td>Pour Point (degC)</td>
<td>3</td>
<td>12</td>
<td>-46</td>
<td>0</td>
<td>-15</td>
</tr>
<tr>
<td>Acidity (mgKOH/g)</td>
<td>0.31</td>
<td>0.12</td>
<td>1.10</td>
<td>0.03</td>
<td>0.05</td>
</tr>
<tr>
<td>Viscosity (cSt at 20°C)</td>
<td>67</td>
<td>49</td>
<td>93</td>
<td>6</td>
<td>20</td>
</tr>
<tr>
<td>Nickel (ppm wt)</td>
<td>6</td>
<td>41</td>
<td>111</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Vanadium (ppm wt)</td>
<td>8</td>
<td>546</td>
<td>5</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

*Please refer to [www.bpcrudes.com](http://www.bpcrudes.com) for the latest assay and more detailed information.

Crude distillation yields

The chart opposite compares the yield structure of Schiehallion with a selection of other grades. Schiehallion has a similar distillation profile to Foinaven, with high vacuum gasoil and low naphtha yields.

It is rich in middle distillates. Schiehallion’s yield structure means that it can be processed as a complementary feedstock with lighter crude grades, and is ideal for refineries with cracking or residue upgrading capability.
The yields and qualities outlined here are based on information that we consider reliable, nevertheless, actual production may vary and no representation or warranty, expressed or implied, is made as to the accuracy or completeness of the information in this brochure or any accompanying crude assay. Neither BP or their agents accept any liability for any use made of the information or assay data.

Contact information

BP Oil International Ltd.
20 Canada Square
Canary Wharf
London E14 5NJ
United Kingdom

Tel: +44 (0)20 7948 4000
www.bpcrudes.com