## **LIFTINGS**

Country VIETNAM

Terminal FSO Rang Dong MV17 operated by Japan Vietnam

Petroleum Co. Ltd.

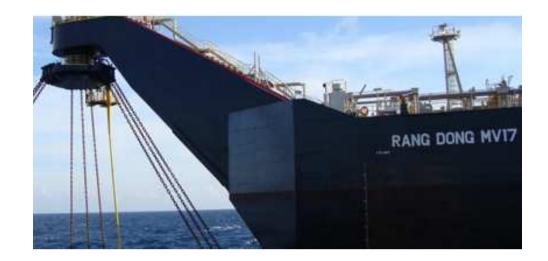
Location Offshore 160 miles south east of Ho Chi Minh City

Loading Restriction Terminal accepts vessel up to 150k DWT

Loading Rate 11,000 bbl/hour - loading is done in tandem

Cargo Size 200,000 bbl subject to +/- 5% tolerance

Note No draft restriction, Aframax and Suezmax



## **CRUDE OIL CHARACTERISTICS**

General Rang Dong is a light ultra-low sulfur, paraffinic Crude Oil

with high yield of Naphtha of excellent quality for

isomerization and reformer feedstock. Yields 1.44 LV% of

56 WT% butane LPG.

Naphtha Yields 17% of Naphtha suitable for reforming with a good

N+2A.

Kerosene Low aromatic, very low sulfur and low nitrogen; high smoke

and aniline point suitable for hydrotreating Jet Fuel.

Gas Oil 19 LV% of high quality Gas Oil with cetane index of 68 and

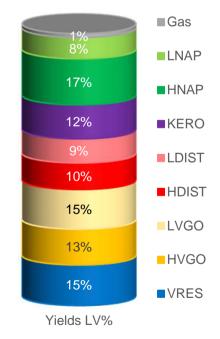
0.03 WT% sulfur.

VGO Paraffinic nature, good yield of thermal and catalytic

feedstock with low nitrogen.

Residue 15 LV% Vacuum Residue of good viscosity, 15.8 °API and

0.15 WT% sulfur Fuel Oil.



## **RANG DONG**

API Gravity	40.24
Density 15°C kg/l	0.8235
Sulfur WT%	0.047
Nitrogen ppm	340
RVP kPa	51.16
Pour Point °C	24
TAN mgKOH/g	0.13
Viscosity 40°C cSt	4.7
Viscosity 50°C cSt	4
Vanadium ppm	0.12
Nickel ppm	3.13

Perenco makes no representations or warranties express or implied, regarding the accuracy, adequacy, reasonableness or completeness of the information, assumptions or analysis contained herein or in any supplemental materials, and Perenco accepts no liability in connection therewith. This information on the crude oil presented here was prepared by Perenco. It is for your private information and we are not soliciting or suggesting any action based upon it. The actual yields and qualities of production may vary and no representation or warranty, expressed or implied, is made as to the accuracy completeness of the information in this brochure or any accompanying crude assay.

PERENCO