LIFTINGS

Country VIETNAM

Terminal FSO Thai Binh operated by Cuu Long Joint Operating Co.

Location Offshore 160 miles south east of Ho Chi Minh City

Loading Restriction Terminal accepts vessels up to 150,000 DWT

Loading Rate 22,000 to 35,000 bbl/hour – loading is done in tandem

Cargo Size 200,000 bbl to 650,000 bbl subject to +/- 5% tolerance

Note No draft restriction, Aframax and Suezmax



CRUDE OIL CHARACTERISTICS

General Su Tu Den is a paraffinic, ultra low sulfur, light Crude Oil.

Excellent for isomerization and reformer feedstock and 20 LV% of high cetane Gas Oil. It has 1.6 LV% of excellent

LPG.

Naphtha 15 LV% of Naphtha suited for reforming feedstock with

good N+2A and good paraffin content for isomerization.

Kerosene Low aromatic, very low sulphur, low nitrogen and high

smoke point; suitable for hydrotreating Jet Fuel.

Gas Oil High quality Gas Oil with cetane index of 75 and 0.04 WT%

sulfur.

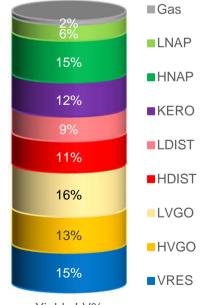
VGO Parafinic nature, good yield of thermal and catalytic

feedstock with low nitrogen.

Residue Excellent wax yield however it has high asphalten content

that after dewaxing makes an excellent Asphalt Cement

base.



Yields LV%

SU TU DEN

API Gravity	39.5
Density 15°C kg/l	0.8271
Sulfur WT%	0.064
Nitrogen ppm	840
RVP kPa	27.72
Pour Point °C	30
TAN mgKOH/g	0.12
Viscosity 40°C cSt	5
Viscosity 50°C cSt	4.2
Vanadium ppm	0.23
Nickel ppm	4.88

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