

ISALOS net

July 2018

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Wet cargoes

- Crude oil
- Oil products
 - Petrol
 - Gasoline
 - Kerosene
- Chemicals
- LPG
- LNG



Wet cargo operations

- Loading
- Transit
- Discharging



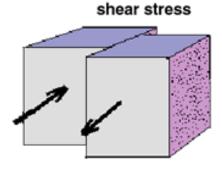
Loading operations

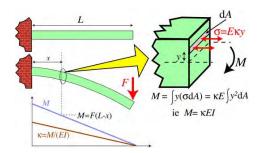
- By means of the terminal
- Tanks ready to receive cargo



Transit operations

- Transport with care
- Loading plan
 - Stresses
 - Shear forces
 - Bending moments
- Maintain safe atmosphere





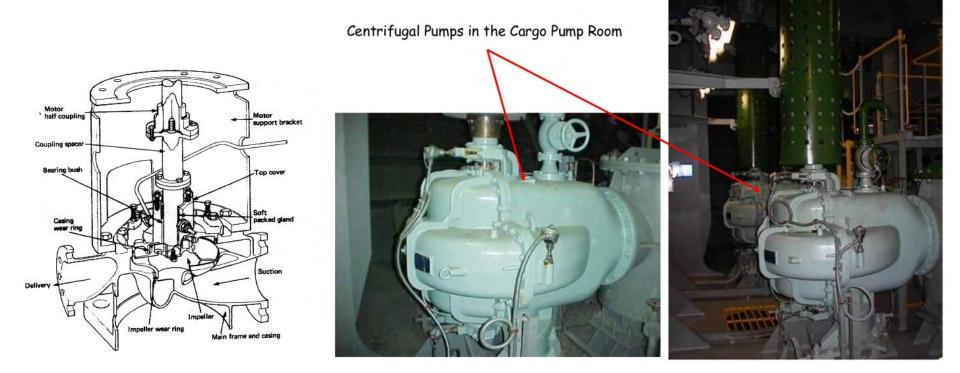


Discharging operations

- Means of discharging
 - Cargo pumps
 - Stripping pumps
- Limited time 24 hours
- Time for next Cargo Operation preparation
- Crude oil wash COW



Centrifugal Cargo pumps





Reciprocating Stripping pumps





Cargo lines







Manifolds

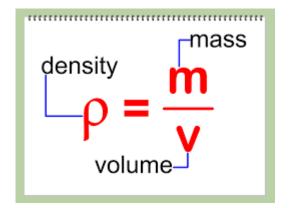






Liquid cargo properties

- Flash point
- Pour point
- Density
- Volume to temperature
- Pressure



Flashpoint:

The lowest temperature at which a liquid gives off sufficient gas to form a flammable gas mixture near the surface of the liquid. It is measured in a laboratory in standard apparatus using a prescribed procedure.

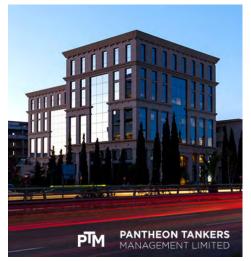
> Pour point The lowest temperature at which a petroleum oil will remain fluid.



	pascal (Pa)	bar (bar)	atmosphere (atm)	torr (torr)	pound-force per square inch (psi)	kilogram-force per square centimeter (kgf/cm ²)
1 Pa	≡ 1 N/m ²	10 ⁻⁵	9.8692×10 ⁻⁶	7,5006×10 ⁻³	145.04×10 ⁻⁶	1,01972×10 ⁻⁵
1 bar	100,000	≡ 10 ⁶ dyn/cm ²	0.98692	750.06	14.504	1.01972
1 atm	101,325	1,01325	≡ 1.atm	760	14.696	1.03323
1 torr	133.322	1.3332×10 ⁻³	1.3158×10 ⁻³	≡ 1 torr ≈ 1 mmHg	19.337×10 ⁻³	1.35951×10 ⁻³
1 psi	6,894.76	68.948×10 ⁻³	68.046×10 ⁻³	51.715	≡ 1 lbf/in ²	7.03059×10 ⁻²
1 kgf/cm ²	98,066.5	0.980665	0.967838	735.5576	14.22357	≡ 1 kgf/cm ²

Contact Details





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Thank you