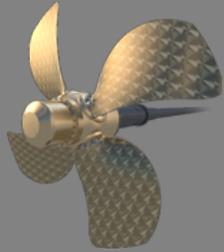


PROPULSION PRODUCT OVERVIEW



MPP



MTA



MTT



Twin Fin



MPC 800

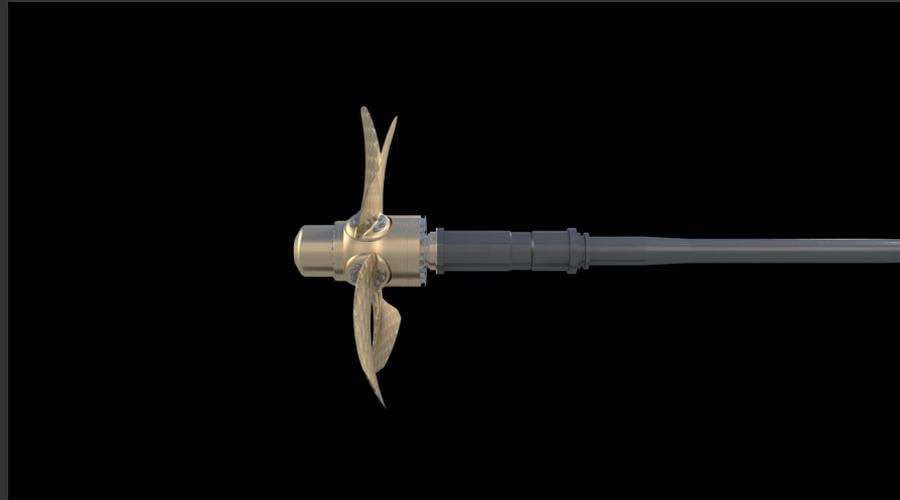
ENVIRONMENTALLY MINDED

- Equipment fully compatible with EAL oils that full fills VGP2013
- Suitable for use with water lubricated stern tubes



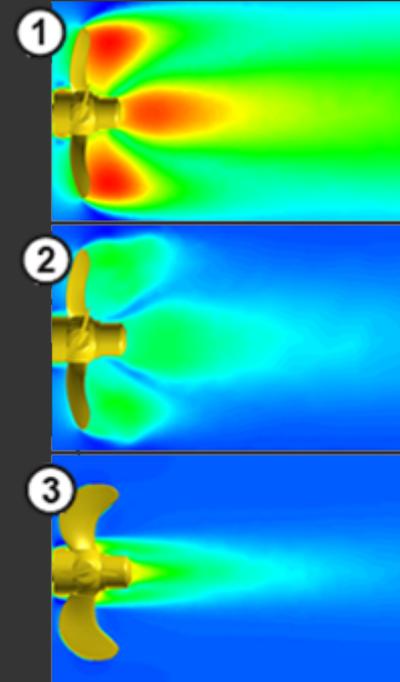
FEATHERING

- Improvements:
 - Flexibility
 - Fuel consumption
 - Efficiency
 - Less mechanical wear
 - Less NOx emissions



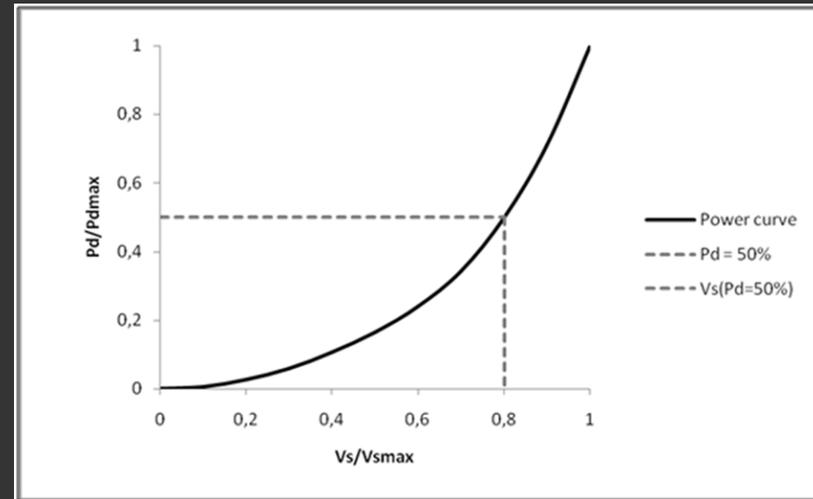
FEATHERING - MINIMUM RESISTANCE

1. Locked propeller shaft without feathering
 - High resistance
2. Self-milling
 - Inadequate lubrication
 - Medium resistance
3. Locked propeller shaft with feathering
 - Low resistance
 - No mechanical loss



EXAMPLE: FEATHERING WITH TWIN SCREW

- Twin screw coastal tanker
- Shutting off one engine
- Simplified engine maintenance
- Benefits:
 - 50 % input power
 - 50 % fuel consumption
 - 80 % vessel speed



STAINLESS STEEL CLADDING

- Water lubricated stern tube
- Shaft exposed to sea water
- A green solution
- Cost competitive
- Protection



CIRCULATED LUBRICATION WITH OIL CONDITION MONITORING

- Constant oil flow
- Automatic separation of contamination
- Monitoring circulated oil
- Enables planned service
- Minimizing downtime

