



Key Features

- ◆ Fuel oil analysis
- ◆ Lubricant analysis

PrimeShip-OAS is a (1) fuel oil analysis service based on JIS or ISO standards, and (2) stern tube lubricant analysis service carried out as part of Propeller Shaft Condition Monitoring.

Fuel oil analysis

In addition to the usual fuel oil analyses based on the ISO 8217 or JIS K2205 standards, PrimeShip-OAS clients to have tests the ignition and combustion characteristics of fuel to be carried out using FIA combustion test rig. PrimeShip-OAS analyses provides owners with information on the following.

- (a) General properties
Density, kinematic viscosity, flash point, pour point, water, carbon residue, ash, sulfur, CCAI
- (b) Metal elements
V, Na, Al, Si, Zn, Ca, P, Fe, Pb, Sn
- (c) Combustion test
- (d) Asphaltene
- (e) Ferrography
Direct reading method,
microscopic analysis



Combustion test using FIA-100FCA
(Standard: IP541/06)



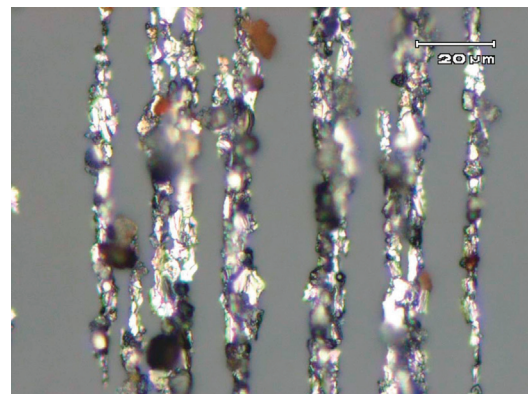
ClassNK's Guidance

Lubricant analysis

For stern tube lubricating oil, PrimeShip-OAS provides analysis for the following four items, (a) to (d). If the ship has applied for ClassNK's Propeller Shaft Condition Monitoring service defined in Part B of the Society's Rules, oil sampling and the analysis are required at six month intervals for following items;

- (a) Metal elements
- (c) IR oxidation
- (d) Free water

- (a) Metal elements
Fe, Sn, Pb, Na
- (b) Ferrography
Direct reading method, microscopic analysis
- (c) IR oxidation
- (d) Free water



Microscopic analysis of lubricant

Procedure from application to analysis

