CLAIMS

1. A cylinder lubricating oil composition for a crosshead diesel engine equipped with a scrubber, comprising:

a base oil;

(A) a metallic detergent; and

(B) a demulsifier in an amount of 0.02 to 5.0 mass% on the basis of the total mass of the composition;

wherein the lubricating oil composition has a base number of 15 to 125 mgKOH/g, and a kinematic viscosity at 100°C of 10 to 30 mm^2/s; and

the component (B) is one or more polyether compound.

2. The cylinder lubricating oil composition for the crosshead diesel engine equipped with the scrubber according to claim 1,

wherein a number average molecular weight of the component (B) is no less than 500.

3. A cylinder lubricating oil composition for a crosshead diesel engine equipped with a scrubber, comprising:

a base oil;

(A) a metallic detergent; and

(B) a demulsifier having a HLB value of 13 to 20, in an amount of 0.02 to 5.0 mass% on the basis of the total mass of the composition,

wherein the lubricating oil composition has a base number of 15 to 125 mgKOH/g, and a kinematic viscosity at 100°C of 10 to 30 mm^2/s.

4. The cylinder lubricating oil composition for the crosshead diesel engine equipped with the scrubber according to any one of claims 1 to 3,

wherein the lubricating oil composition comprises:

(C) a nitrogen-containing ashless dispersant.

5. The cylinder lubricating oil composition for the crosshead diesel engine equipped with the scrubber according to any one of claims 1 to 3,

wherein the lubricating oil composition optionally comprises:

(C) a nitrogen-containing ashless dispersant in an amount of no more than 0.2 mass% in terms of nitrogen on the basis of the total mass of the

composition.

6. The cylinder lubricating oil composition for the crosshead diesel engine equipped with the scrubber according to any one of claims 1 to 5,

wherein the component (A) is a Ca phenate.

7. A method of lubricating a cylinder of a crosshead diesel engine equipped with a scrubber, comprising:

operating the crosshead diesel engine while supplying the lubricating oil composition as in any one of claims 1 to 6 to the cylinder of the crosshead diesel engine equipped with the scrubber; and

purifying at least a part of gas exhausted from the cylinder in the scrubber.

8. The method of lubricating the cylinder of the crosshead diesel engine equipped with the scrubber according to claim 7,

wherein the purifying in the scrubber comprises contacting the gas introduced into the scrubber with water and/or a basic aqueous solution.