

4 Quality Control Standard of Used Oil

Even though lubrication control is performed and appropriate treatment is administered according to the condition of the oil, the time will come when the oil will not be satisfactory even after the purification. As such, the oil will have to be changed.

No definite standards can be established as condition of use and an operational condition varies. However, the following can be used as a guide for oil management. It is important to make an overall decision rather than an individual decision from each analysis. To make an overall decision, each test item should be weighed depending on the machine used and its operating conditions.

System cylinder oil for small trunk piston type diesel engine

Product Names		DCC3008, DCC4008, CD15W40	DCB4015	DCB4030
Fuel Oil		Light Oil, A-Fuel Oil, B-Fuel Oil	B-Fuel Oil, A/C Blend Fuel Oil	C-Fuel Oil, High Viscosity Fuel Oil
Test Items				
Flash Point	(PM)°C	Over 180	Over 180	Over 180
Kinematic Viscosity	(40°C)cSt	-15% ~ +30%	-15% ~ +30%	-15% ~ +30%
Total Base Number (Perchloric Acid Method)	mg KOH/g	Over 3.0	Over 8.0	Over 20.0
Water Content	Vol %	Less than 0.3	Less than 0.3	Less than 0.3
N-pentane insoluble	wt %	Less than 2.5	Less than 2.5	Less than 2.5

System Oil for Intermediate Speed Diesel Engine

Product Name		DCB4030
Test Items		
Flash Point	(PM) °C	Over 180
Kinematic Viscosity	(40°C) cSt	-25% ~ +30%
Total Base Number (Perchloric Acid Method)	mg KOH/g	Over 15.0
Water Content	Vol %	Less than 0.3
N-pentane Insoluble	wt %	Less than 2.0

Note: In case of PC engine, the value of total base number 15.0 mg KOH/g can be permitted at most when the sulphur content in C-Fuel oil is less than 2.0 wt %

Other Lubricants

Product Name		Turbine Oil	Hydraulic Oil	Gear Oil
		L-TSA	L-HM+, L-HM, L-HV	L-CKC, L-CKD
Kinematic Viscosity	(40°C) cSt	-10% ~ +10%	-10% ~ +10%	-10% ~ +10%
Total Base Number (Perchloric Acid Method)	mg KOH/g	New Oil +0.3	New Oil +0.5	New Oil +2.0
Insoluble by Membrane Filter Method	(0.8u)	Less than 20	Less than 20	Less than 20
Water Content	Vol %	Less than 0.1	Less than 0.1	Less than 0.1