

TGL-20-99 Lubricant Oil

The use of lubricant oil for vehicles and in many industries poses a threat to the environment especially after the disposal process due to its metal content, such as chromium and carcinogenic substances like Polycyclic Aromatic (PCA) and Polychlorinated Biphenyl (PCB), which are hazardous to the body when highly exposed to them. If there is no proper discharge management procedure for this type of substance, this would cause severe ecological destruction especially with lubricant oil due to its low biodegradation rate; thus, causing water pollution (due to lack of oxygen as it remains floating on the surface water) or change in the physical, chemical and biological characteristics of the soil.

In order to carry the Green Label, lubricant oil must have a low PCA rate and PCB, high biodegradation rate and must have a suitable management process in order to reduce the hazardous effect to humans and the environment.

Category Definition

This category includes lubricant oil for vehicles and other industries as follows:

- 1) Lubricant oil can be classified into 3 categories:
 - Diesel oil for 4T(tubes)
 - Benzene for 4T9(tubes)
 - Benzene for 2T(tubes)
- 2) Gear oil
- 3) Hydraulic oil

Green Label Requirements

In order to carry the Green Label, a product must meet both the general and specific requirements enumerated below:

A. General Requirements

1. The product must be certified by the Thai Industrial Standards such as:
 - TISI 356, Standard For Lubricant Oil
 - TISI 976, Standard For Gear Oil
 - TISI 977, Standard For Hydraulic Oil
 - TISI 1040, Standard For Lubricant Oil Benzene for 2T engine or acceptable International Standard such as API(American Petroleum Institute), DIN(Deutsche Industrie Norman) or otherwise, must have passed the standardized tests of product quality; and

In the event of any conflict arising from the above, it shall be resolved on the basis of the original criteria in Thai.

2. It be manufactured, transported and disposed of in a manner as required by governmental acts and regulations (i.e. Factory Act, Ministry of Industry).

B. Product Specific Requirements

1. For Benzene lubricant oil for 4T and Diesel lubricant oil for 4T:
 - it must have a guaranteed service life of at least 10,000 kilometers;
 - it must not contain any Lead, Mercury, Chromium (VI) and Cadmium metallic substances;
 - the product must not contain Poly Cyclic Aromatic (PCA) in excess of 3 % by weight and must not contain Poly Chlorinated Biphenyl (PCB) in excess of 50 mg/Kg.
 - the company must have a take-back policy for all its used product containers, implemented within 1 year from the date of authorization to carry the Green Label; thus, ensuring the proper disposal of used products;
 - packaging (in plastic containers) must have passed the durability test on Methodology Number 6.6, and shall be marked with the type and content of the plastic material on the product, if applicable.
2. For Benzene lubricant oil for 2:
 - the product must have a biodegradability of at least 60 %;
 - it must not contain any metallic substances such as Lead, Mercury, Chromium (VI) and Cadmium;
 - it must not contain Polycyclic Aromatic (PCA) in excess of 3 % by weight and must not contain Polychlorinated Biphenyl (PCB) in excess of 50 mg/Kg.;
 - packaging (in plastic containers) must pass the durability test on Methodology Number 6.6, and shall be marked with the type and content of the plastic material on the product, if applicable.
3. For Gear oil:
 - the product must have a guaranteed service life of at least 10,000 kilometer or at least 3,000 hrs;
 - it must not contain any metallic substances such as lead, mercury, chromium (VI) or cadmium;
 - it must not contain Polycyclic Aromatic (PCA) in excess of 3 % by weight and must not contain Polychlorinated Biphenyl (PCB) in excess of 50 mg/Kg;
 - the company must have a take-back policy for all its used product containers, implemented within 1 year from the date of authorization to carry the Green Label; thus, ensuring the proper disposal of used products;
 - packaging (in plastic containers) must pass the durability test on Methodology Number 6.6, and shall be marked with the type and content of the plastic material on the product, if applicable;

In the event of any conflict arising from the above, it shall be resolved on the basis of the original criteria in Thai.

4. For Hydraulic oil:
- it must have a biodegradability of at least 60 %;
 - it must have a guaranteed service life of at least 3,000 hrs.
 - it must not contain any metallic substances such as lead, mercury, chromium (VI) and cadmium.
 - it must not contain Polycyclic Aromatic (PCA) in excess of 3 % by weight and must not contain Polychlorinated Biphenyl (PCB) in excess of 50 mg/Kg.
 - the company must have a take-back policy for all its used product containers, implemented within 1 year from the date of authorization to carry the Green Label; thus, ensuring the proper disposal of used products;
 - packaging (in plastic containers) must pass the durability test on Methodology Number 6.6, and should be marked with the type and content of the plastic material on the product, if applicable;

In the event of any conflict arising from the above, it shall be resolved on the basis of the original criteria in Thai.