

LUBRICATING OILS AS ENVIRONMENTAL FRIENDLY PRODUCTS

Ministry of Environment and Forests, Notification No. G.S.R. 599 (E), dated June 18, 1992, published in the Gazette of India, Extra., Part II, Section 3 (i), dated 18th June, 1992, pp. 2-3

In exercise of the decisions recorded in paragraph 5 of the resolution of the Government of India in the Ministry of Environment and Forests, published vide G.S.R. No. 85(E), dated 21-2-1991 in the Gazette of India, Extraordinary, Part II, section 3, sub-section (i) the Central Government hereby notifies the following criteria for labelling *Lubricating Oils as Environmental Friendly Products*:

1. General requirements.—(i) All lubricating/speciality oils shall meet relevant Indian Standards notified by Bureau of Indian Standards (BIS).

(ii) The product manufacturer must produce the consent clearance as per the provision of Water (Prevention and Control of Pollution) Cess Act, 1977 and Air (Prevention and Control Pollution) Act, 1981 respectively along with the authorization if required, under Environment (Protection) Act, 1986 and rules made thereunder, to Bureau of Indian Standards while applying for the ECOMARK.

(iii) The product must display the list of critical ingredients in descending order of quantity present in per cent by weight, to be decided by BIS.

(iv) The product packaging may display in brief the criteria based on which the product has been labelled Environment Friendly.

(v) The material used for product shall be recyclable or reusable or biodegradable.

(vi) The product package or leaflet accompanying it shall display instructions of proper use, storage, transport and recommend disposal guidelines after use and safe handling precautions so as to maximize the product performance and minimize wastage.

2. Product specific requirements.—(a) Lubricating Oils (Virgin): Following categories of oil are included:

- Lubricants : Vegetable Oil based.
- Lubricants : Other than Vegetable Oil based.

Following specific requirements shall be fulfilled in order to qualify for the ECOMARK.

- (i) The product shall not contain any carcinogenic ingredients when tested as per OSHA/NTP/IARC method. (Indian Oil Corporation, R & D Center, Faridabad shall provide the details to BIS).
- (ii) The product must not have toxic effect on aquatic organisms. EC 50/LC 50 shall be less than 1.0 mg/litre. (The method of testing to be followed shall be decided by BIS in consultation with the Central Pollution Control Board.)
- (iii) The base oil, additives and formulated products must have percent bio-degradability as mentioned below :

Lubricant	Minimum Bio-degradability
Lubricants (Vegetable Oil based)	90%.
Lubricants (Other than Vegetable Oil based)	70%.

The above mentioned percent bio-degradability shall be tested as per OECD test method CEC-L-33-T-82 and in 21 days.

- (iv) The product shall not contain toxic metals such as Lead and Barium. Antimony would not be used in concentration beyond 0.25% when tested as per AAS method. The product must not contain halogenated products such as PCBs, PCTs and Nitrites. The manufacturer shall provide documentary evidence to BIS in this effect along with the supporting data.

(b) Formulated lubricants from re-claimed/re-refined oils.

- (i) The product shall contain more than 50% by volume re-refined/re-cycled products, re-claimed through environmentally compatible re-refining process. [(1) The manufacturer shall provide documentary evidence to BIS to this effect along with supporting data. (2) The lubricants containing more than 2000 parts per million of PCBs, should be treated as hazardous waste and therefore shall not be defined/reclaimed.]
- (ii) The product shall meet the product specific requirements as per lubricating oils (virgin) as mentioned at para 02(A).

3. BIS may formulate/incorporate optional standards for environment friendly characteristics.

4. Filing of objections.—Any person interested in filing any objection against these criteria for labelling lubricating oils as environment friendly may do so in writing to the Deputy Secretary, Ministry of Environment and Forests, Paryaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003, within sixty days from the date of publication of this notification in the Official Gazette.