

Environmental Choice^M Program

CERTIFICATION CRITERIA DOCUMENT

CCD-062



Product: Automobile Service Stations

Preamble

Pursuant to paragraph 54 (1)(b) of the *Canadian Environmental Protection Act, 1999*, Environment Canada is pleased to publish the following national guideline on **automobile service stations** under the auspices of the Environmental Choice^M Program.

The Environmental Choice Program is designed to support a continuing effort to improve and/or maintain environmental quality by reducing energy and materials consumption and by minimizing the impacts of pollution generated by the production, use and disposal of goods and services available to Canadians.

A well maintained automobile is more efficient, and therefore reduces air pollution and consumes fewer resources. Automobile maintenance, lubrication, repair and engine tune-up services are carried out at general automobile repair and tune-up service stations, while windshield repair, muffler repair shops offer more specialized services.

Automobile service stations use oils and solvents that have negative environmental impacts if not disposed of in a responsible manner. Some of the wastes are classified as hazardous and thus require special handling. Most are recycled, but others must be sent for disposal.

Interceptors ensure that oily wastes do not enter waste water streams. Their use benefits the environment by reducing the loading of wastewater treatment facilities. Resource consumption and solid waste can be reduced if re-refined fluids are used.

Based on a review of currently available life cycle information, the service category requirements will produce an environmental benefit through **reductions in solid waste sent to landfill and reductions in the disposal of hazardous wastes**.

Life cycle review is an ongoing process. As information and technology change, the product category requirements will be reviewed and possibly amended.

Environment Canada anticipates that **automobile service stations** which conform to this guideline will apply to the Environmental Choice Program for verification and subsequent authority to label the qualifying services with the Environmental Choice EcoLogo^M.

Notice

Any reference to a standard means to the latest edition of that standard.

The Environmental Choice Program reserves the right to accept equivalent test data for the test methods specified in this guideline.

Notice of Intent

It is the intent of the Environmental Choice Program to consider inclusion of a criterion requiring collection of auto parts for refurbishing in a future revision of this guideline.

It is also the intent of the Program to require all Automobile Service Stations to adopt Stage 1 controls for vapour recovery.

Interpretation

1. In the following guideline:

“absorbent” means a substance used to absorb spills that may occur during material transfer or as a result of structural failure of a container. Absorbents may include clay, sand, peat moss, sawdust or commercial compounds;

“API” means the American Petroleum Institute;

“ASTM” means the American Society for Testing and Materials;

“automobile service station” means any facility that offers general car maintenance and repair services. This includes oil change and lubrication services. Facilities that offer specialized services, such as windshield repair facilities, paint and body shops and gas-only stations, are not included;

“consumer” means a person, household, commercial establishment or institutional facility;

“drip tray” means any tray designed to collect waste fluids leaking from both automobiles and auto parts;

“engine coolant” means a mixture of engine coolant concentrate and water that is used as a heat exchange fluid to transfer heat from the engine block of an internal combustion engine and connected accessories to the air at the radiator within a closed loop circulatory system;

“High-Efficiency Particulate Air (HEPA) filter” means a filter for trapping particulate matter during vacuuming operations. HEPA filters must be NIOSH approved.

“interceptor” means a gravity separator used to collect and separate oil and suspended solids from the waste water prior to discharge into the sanitary sewer; usually installed below a facility’s floor;

“interceptor waste” means waste containing separated oil and suspended solids or sludge resulting from the cleaning of the interceptor;

“NIOSH” means the National Institute of Occupational Safety and Health (United States);

“oil and lubrication service” means a facility offering some or all of the following: fluid level checking, engine/transmission/differential oil replacement, chassis/steering lubrication, and radiator flushing and engine coolant replacement;

“rag” means a reusable or disposable cloth used in the clean-up of minor spills and removal of oil and grease from oily surfaces;

“reclaimed solvent” means solvent that has been recovered or regenerated for reuse. This can be accomplished either on-site or at an off-site facility;

“reclamation” means the re-purification of a waste product for reuse. This can be accomplished either on-site or at an off-site facility;

“refurbished auto part” means any auto part that has been reconditioned to become reusable;

“re-refining facility” means a treatment facility that completely restores the original properties of a fluid;

“**sanitary sewer**” means a sewer for the collection and transmission of domestic, commercial, institutional and industrial sewage or any combination thereof;

“**solvent recirculation sink**” means a chamber designed to recirculate solvent used in auto parts cleaning;

“**tire-derived fuel**” means the burning of tires as a fuel source or supplement in designated industrial combustion applications including industrial boilers or cement kilns;

“**waste management contractor**” means an operator contracted for the removal of waste from an automobile service station;

“**waste manifest**” means a detailed description, including date, amount and composition of wastes disposed of by an automobile service station;

“**waste fluid**” means any fluid generated as a result of the maintenance, repair or tune-up of an automobile; and

“**wet-wiping**” means the application of a fluid to a surface in a controlled manner in order to entrap and remove dust.

Category Definition

2. This category includes all **automobile service stations**.

General Requirements

3. To be authorized to carry the EcoLogo, **automobile service stations** must:
 - (a) meet or exceed all applicable governmental and industrial safety and performance standards; and
 - (b) operate in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by laws and regulations including, for facilities located in Canada, the *Fisheries Act* and the *Canadian Environmental Protection Act (CEPA)*.

Service Specific Requirements

4. To be authorized to carry the EcoLogo, where relevant to the services provided, the **automobile service station** must:
 - (a) develop and implement a waste minimization program which includes the following:
 - (i) recovery of all used oil for delivery to a re-refining facility;
 - (ii) recovery and segregation of all waste fluids in clearly labelled impermeable containers for pick up by a licensed waste management contractor;
 - (iii) disposal of all contaminated rags and absorbent in a manner consistent with regulations appropriate to the contaminant;
 - (iv) removal of all used tires by a service that offers the tires for resale, retreading, recycling, or use as tire-derived fuel where regulations permit;
 - (v) maintenance of on-site recycling facilities for recovered ethylene glycol engine coolant capable of meeting ASTM D3306-89, *Standard Specification for Ethylene Glycol Base Engine Coolant for Automobile and Light-Duty Service*, or ensure pick up of recovered engine coolant by a licensed waste management contractor for recycling off-site, where facilities exist, or for disposal;

- (vi) recovery of all oil filters, for shipment to a facility that recycles the metal, used oil and fibres for reuse. If fibre recovery is not feasible, high temperature incineration must be used. No part of the oil filter may be disposed of in landfill by the recycler;
 - (vii) the implementation of wet-wiping or, vacuuming methods which employ a NIOSH approved High-Efficiency Particulate Air (HEPA) filter, to remove visible dust from the brake unit and the brake repair area. Any dust containing asbestos must be disposed of according to applicable provincial regulations;
 - (viii) collection of all scrap metal for delivery to a recycling facility;
 - (ix) recovery of all spent automobile batteries for shipment to a battery recycler or manufacturer, or collection by a licensed waste management contractor for recycling or disposal in a licensed hazardous waste facility;
- (b) prior to the commencement of vehicle service, offer to the consumer through promotional material:
- (i) re-refined engine coolant concentrate and engine oil that meet the requirements of the Environmental Choice Program national guidelines on Engine Coolant Concentrate (ECP-43-91) or Automotive Engine Oil (ECP-01-89); and
 - (ii) refurbished auto parts, where feasible;
- (c) not use a carburettor cleaner compound containing 1,1,1-trichloroethane;
- (d) use drip trays in all bays to reduce spillage and provide a safer work environment;
- (e) use a solvent recirculation sink including drip tray to reduce solvent losses;
- (f) properly maintain the interceptor, by inspecting monthly, and servicing, either in-house or through contracted services:
- (i) when inspection indicates the bottom sludge exceeds one-third of the depth between the bottom of the chamber and the bottom of the lowest inflow or outflow pipe in the last chamber, or when floating oil exceeds five (5) centimetres in the first compartment; or
 - (ii) after a spill of waste fluid enters the interceptor which is of significant quantity or quality to impair the operation of the interceptor at the time of the spill or in the future, or will have an affect on normal interceptor discharge water quality; or
 - (iii) at least annually unless required more frequently by law;
- (g) ensure removal of interceptor waste by a licensed waste management contractor;
- (h) if air-conditioning servicing is offered, used refrigerant must be captured for reclamation;
- (i) maintenance of a specific, detailed, waste manifest for all refrigerant that is removed, collected, received, recycled or transported; and



- (j) ensure all employees are aware of and have received training with respect to the following (as appropriate to their function):
 - (i) the proper use, maintenance and inspection of interceptors;
 - (ii) good housekeeping practices to minimize contaminants entering the sewer system;
 - (iii) emergency response procedures to prevent contaminants from being discharged from the site; and
 - (iv) routine monitoring procedures.

Verification

- 5. To verify a claim that a service meets the criteria listed in the guideline, the Environmental Choice Program will require access, as is its normal practice, to relevant quality control records and the right of access to facilities on an announced basis.
- 6. Compliance with section 3(b) shall be attested to by a signed statement of the Chief Executive Officer or the equivalent officer of the facility. The Environmental Choice Program shall be advised in writing immediately by the licensee of any noncompliance which may occur during the term of the license. On the occurrence of any noncompliance, the license may be suspended or terminated as stipulated in the license agreement.

Conditions for EcoLogo

- 7. The EcoLogo may appear on promotional and/or advertising materials, provided that the service meets the requirements in this guideline.
- 8. It is recommended that a criteria statement appear with the EcoLogo whenever the EcoLogo is used in association with the *automobile service station(s)*. The intent of this statement is to provide clarification as to why the product was certified and to indicate constraints to which the certification is limited. This is to ensure no ambiguity over, or misrepresentation of, the reason(s) for certification. ECP suggested criteria statement wording for this product type is “*Automobile service station*”. The licensee may propose other wording for the criteria statement), but any such proposed wording must be approved by the Environmental Choice Program.
- 8. All licensees and authorized users must comply with the Environmental Choice Program's *Guide to Proper Use of the EcoLogo^M* regarding the format and usage of the EcoLogo.
- 9. Any accompanying advertising must conform with the relevant requirements stipulated in this guideline, the license agreement and the Environmental Choice Program's *Guide to Proper Use of the EcoLogo^M*.

	<p>For more information about the EcoLogo™ Program, please direct your inquiry to: The EcoLogo™ Program 171 Nepean Street, Suite 400 Ottawa, ON, K2P 0B4 Phone: 1.800.478.0399 www.ecologo.org</p>	
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