United States
Environmental Protection
Agency

Solid Waste and
Emergency Response
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EPA

Vehicular Products Containing Recovered Materials

VEHICULAR PRODUCTS

This list of manufacturers and suppliers of items containing recovered materials has been prepared to facilitate implementation of the U.S. Environmental Protection Agency's (EPA) Comprehensive Procurement Guideline and to assist customers interested in the purchase and use of products containing recovered materials. Manufacturers can provide the names and locations of regional or local suppliers.

Each listing is based on information provided by the manufacturer. Product information has not been verified, and no guarantee, expressed or implied, is made as to the accuracy or completeness of the information provided. Inclusion in this listing does not represent an endorsement by EPA.

For information on or copies of the Comprehensive Procurement Guideline, contact EPA's RCRA Hotline at (800) 424-9346.

RE-REFINED LUBRICATING OILS

MANUFACTURERS

Chevron U.S.A. Products Company
575 Market Street
San Francisco, CA 94105
Contact: Brent Lok
Phone: (415) 894-2962
Fax: (415) 894-8552

Brand Name: ECO
Distribution: United States
Products:

Engine lubricating oils

Viscosity: 5W30, 10W30, 10W40, 15W40, 10WSAE, 20WSAE, 30WSAE, 40WSAE, 50WSAE, 20W50
API Service: SG, CD, EC-II
Packaging: Drums and bulk

Heavy duty motor oils

Viscosity: 15W-40
API Service: CF-4, CE, CD, CD-II, SG
Packaging: Drums and bulk

Hydraulic oils AW

Viscosity: ISO 32, 46 and 68 grades
Packaging: Drums and bulk

DeMenno/Kerdoon
2000 N. Alameda Street
Compton, CA 90222
Contact: Richard Heim
Phone: (310) 537-7100, ext. 341
Fax: (310) 639-2946

Brand: Sold and labelled by repackagers
Distribution: Western United States
Products:

Engine lubricating oils

Viscosity: 10W30 and 10W40
API Service: SF/CC
Packaging: Bulk

Paraffinic base oils

Ecogard, Inc., Promax Division
(a subsidiary of Valvoline)
301 East Main Street
P.O. Box 14047
Lexington, KY 40512
Contact: Cleve Huston
Phone: (606) 357-7389
Fax: (606) 357-7012

Brand: Ecogard
Distribution: United States
Products: Engine lubricating oils, hydraulic fluids

Evergreen Oil, Inc.
5000 Birch Street, Suite 500
Newport Beach, CA 92660
Contact: Christine Dillon
Phone: (714) 757-7770
Fax: (714) 474-9149

Brand: Evergreen, other products sold and labelled by repackagers
Distribution: United States
Products: Basestock, packaged motor oils, hydraulic fluids

Great Northern Petroleum Inc.
5 Churchill Drive
York, PA 17403
Contact: Percy Glynn
Phone: (717) 741-3839
Fax: (717) 741-0931

Brand: Sold and labeled by repackagers
Distribution: United States and Canada
Products: Lubricating oils, hydraulic oils, custom blended products

Mohawk Lubricants Ltd.
130 Forester
North Vancouver, BC V7H2M9 CANADA
Contact: John MacDonald
Phone: (604) 929-1282
Fax: (604) 929-8371

Brands: Mohawk Oil, Spartan Oil, Canadian Pride
Distribution: Primarily Canada, basestock in Northwestern United States
Products:

Engine lubricating oils

Viscosity: Full range
API Service: SF/SG/CC/CD/CD-II/CE
Packaging: Drum, bulk, 1 liter, 4 liter, 20 liter pail

Hydraulic fluids
Gear oils
Industrial lubricants

Safety-Kleen Oil Recovery
6325 Joliet Road
Countryside IL 60525
Contact: Jim Hoffman
Phone: (312) 229-1500
Fax: (312) 229-0666

Distribution: United States
Products:

Engine lubricating oils

Viscosity: 5W30, 10W30, 10W40, 15W40, 10WSAE, 20WSAE, 30WSAE, 40 WSAE, 50WSAE, 20W50
API Service: Full range SG/CC/CD/CE
Packaging: Quarts, pails, drums and gallons for 15W40 and 30WSAE

Hydraulic fluid

Packaging: Pails and drums

Gear oils

Packaging: Pails, kegs and drums; 80W90/GL5 also available in gallons

VENDORS/DISTRIBUTORS

Coast Oil Company
4250 Williams Rd.
San Jose, CA 95129
Contact: Mark Mitchell
Phone: (408) 252-7720
Fax: (408) 255-5263

Brand: Evergreen
Distribution: Western United States
Products:

Engine lubricating oils

Viscosity: All straight weight oils

Heavy duty lubricating oils
Hydraulic oils
Turbine oils
Tractor hydraulic fluids

Enviropur Waste Refining & Technology, Inc.
7601 West 47th Street
McCook, IL 60525
Contact: John Charlton
Phone: (708) 442-6000 ext. 1220
Fax: (708) 441-6027

Brand: Supplier to blenders
Distribution: United States
Products: Base oils

Lyondell Petrochemical Company
12000 Lawndale Ave.
P.O. Box 2451
Houston, TX 77252-2451
Contact: Rod Dougan
Phone: (713) 475-4310
Fax: (713) 475-4125

Brand: Enviroil
Distribution: United States
Products:

Engine lubricating oils

Viscosity: 10W30
API Service: SG/CD Energy Conserving II
Packaging: Quarts, drums and bulk

Anti-wear hydraulic oils

Viscosity: ISO 32, 46 and 68 grades
Packaging: Drums and bulk

Diesel engine lubricating oils

Viscosity: 15W40
API Service: CF-4/CDII/SG
Packaging: Quarts, drums and bulk

Prime Lube, Inc.
800 Roosevelt Avenue
P.O. Box 539
Carteret, NJ 07008
Contact: Donald A. DiVite
Phone: (800) 634-4615
Fax: (908) 541-7999

Brand: Enviroil
Distribution: CT, NJ, NY
Products:

Engine lubricating oils

Viscosity: 10W30
API Service: SG/CD Energy Conserving II
Packaging: Quarts, drums

Anti-wear hydraulic oils

Viscosity: ISO 32, 46 and 68 grades
Packaging: Drums

Diesel engine lubricating oils

Viscosity: 15W40
API Service: CF-4/CDII/SG
Packaging: Quarts, drums

NOTE: Additional sources of re-refined lubricants can be found in "Re-Refined Lubricants Buyers Guide," which can be ordered at no charge from Safety-Kleen Oil Recovery Co., Suite 100, St. Paul, MN 55118-2424. The guide is a cooperative project of Safety-Kleen Oil Recovery Co., Evergreen Oil, Inc., and Mowhawk Refining Company.

RETREAD TIRES

The U.S. General Services administration, Automotive Commodity Center's Federal Tire Program has developed a facility quality assurance program under its retread tire procurement process. The program is called **Quality Assurance Facility Inspection Program (QAFIP)** and is designed to help insure the quality of retread tires and tire retreading services. While QAFIP was developed principally to insure the quality of retread tires and retreading services purchased by the Federal government, use of QAFIP-certified facilities will also insure the quality of the retread tires or retreading services purchased by non-Federal entities.

Under the QAFIP, the Federal Tire Program has defined a performance standard for a quality assurance program and certifies retread tire industry associations and companies to conduct retread tire facility inspections. In other words, the QAFIP uses the government-certified quality assurance program of a retread tire industry association or retread tire company. The association or company inspects and certifies the retread facility and is responsible for monitoring of retread facilities under the QAFIP. Facilities that have successfully completed a QAFIP certification will receive a **"Retread Facility Certification"** form, which will be kept on file at the retread facility, the association or company's headquarters, and the Federal Tire Program. Government procurement offices can contact the Federal Tire Program or the association or company for verification of the certification of the inspecting association/company under the QAFIP.

The Federal Tire Program will monitor implementation of the QAFIP and the facility certifications issued by the associations and companies. If it is found that the standards of the QAFIP certification are not being met, the QAFIP certification will be terminated for that particular association or company for that particular certification period. The association or company must wait one year before re-applying for certification of its quality assurance program.

Following is a list of the government-certified associations and companies. Please contact them for a list of the QAFIP-certified retread facilities in your area. It is recommended that proof of QAFIP certification is required from the retread dealer(s) prior to issuance of a contract.

For further details on the QAFIP certification program, contact Ken Collings, Manager, Federal Tire Program, U.S. General Services Administration, Automotive Commodity Center (FCAE), Washington, DC 20406, (703) 308-4673.

ASSOCIATIONS

American Retreaders Association
P.O. Box 37203
3332 Gilmore Industrial Boulevard
Louisville, KY 40233
Contact: Marvin Bozarth
Phone: (502)968-8900

National Tire Dealers and Retreaders Association
1250 I Street, NW
Suite 400
Washington, DC 20005-3989
Contact: John F. Buetner, Sr,
Phone: (202) 789-2300

COMPANIES

Bandag, Inc.
Bandag Center
Muscatine, IA 52761-5886
Contact: Frank Marano
Phone: (703) 473-2820

Goodyear Tire and Rubber Company
Retread Division
Technical Center
1144 East Market Street
Akron, OH 44316
Contact: Larry Churchman
Phone: (216) 796-2714

Hercules Rubber Company
1300 Morrical Boulevard
Findlay, OH 45840
Contact: Fred Arehart
Phone: (419) 425-6400

Oliver Rubber Company
P.O. Drawer 1827
Athens, GA 30603-1827
Contact: Michael Squires
Phone: (706) 354-0810

Mohawk Rubber Company
P.O. Box 35634
Richmond, VA 23235-0634
Contact: Edd Burlason
Phone: (800) 344-8291

Engine coolant recycling methods include 1) power flushing the radiator and then restoring the coolant to the vehicle, 2) collecting coolant for bulk recycling, 3) on-site servicing by a mobile unit which restores and sells back the recycled coolant to the customer, or 4) shipping the coolant to a central service center (the shipper must be prepared to bear the costs of clean-up should a spill occur). Some suppliers of on-site engine coolant recycling equipment and their products are listed below. There are a variety of processing methods whose costs and capacities vary greatly. Therefore, careful consideration should be given to unit and operating cost information provided below so that equipment purchases can be tailored to agency needs. Since no industry-wide standards exist for recycling equipment, the quality of the recycled product should be the final determinant. In making such determinations, several factors should be considered. They include: does the equipment have an acceptable "inhibitor balance" to prevent corrosion in customer vehicles; what hazardous waste byproducts are produced as a result of the process; and how can those byproducts be safely disposed (and what is the additional cost of that disposal). Assessing available equipment was beyond the scope of this study. However, between 1990 and 1992, General Motors investigated several anti-freeze recycling processing units for use in GM warranty work. Wayne Bradley, a senior product engineer for GM STG, provided a list of six approved on-site machines (provided below) which emerged from their analysis. His report can be obtained through SEA Papers at (412) 776-4841, No. 921634 for $5. Also, included are FPPF and Marubeni products since they can provide evidence of their rigorous testing programs. GSA-listed High Tech products are also provided.

Activ Inc.
13901 North 73rd Street
Scottsdale, AZ 85260
Contact: Scott McCracken
Phone: (602) 596-1012

Machine: Activ (1) CR 2001 and (2) Activ CR 5001
Unit Price: (1) $9,426; (2) $23,348
Operating Cost: (1) 1st year $11,726; 2nd year $2,100; (2) 1st year $25,348; 2nd year $2,060
Recycling Process: Vacuum Assisted Distillation
Coolant Cost: (1) $1.05 per gallon; (2) $1.03 per gallon
Capacity: (1) 2 gallons per hour; (2) 5 gallons per hour

BG/PTS
701 South Wichita
Wichita, KS 67213
Contact: Harold Erwin, President
Phone: (316) 269-1313
Fax: (316) 265-1082

Machine: Cool'r Clean'r Coolant Purification System (Different models available)
Unit Price: $10,500
Operating Cost: Filter set with activated carbon core/20 vehicles or 60 gal. @ $48.00; Activated carbon/150 vehicles or 450 gal. @ $35.00; Resin regeneration; 1st year $17,380; 2nd year $6,380.
Recycling Process: Filtration and dual bed de-ionization (patented)
Coolant Cost: $3.19
Capacity: 1 vehicle/30 min. or 120 gallons per hour

Finish Thompson, Inc.
921 Greengarden Road
Erie, PA 16501-1591
Contact: Mark Bolash, Lou Nicholo
Phone: (814) 455-4478
Fax: (814) 455-8518

Machine: Model BE-15, BE-15C, or Model BE-55C;
Unit Price: BE-15C: $6,745
Operating Cost: 1st year is $8,725; 2nd year is $1,980
Recycling Process: Distillation
Coolant Cost: $1.00 per gallon
Capacity: 1 to 3.2 gallons per hour

FPPF Chemical Company, Inc.
117 W. Tupper Street
Buffalo NY 14201
Contact: Anthony L. Tucci
Phone: (716) 856-9607
Fax: (716) 856-0750

Machine: Glyclean Anti-Freeze Recycling System Models (1) ARS 100; (2) ARS 18; GSA # GS-07F-71670 until June 30, 1998;
SIN 253-42
Unit Price: (1) $2,582.95; (2) $1,691.87
Operating Cost: Analysis is based on 100 gallons of used coolant with a pH of 8.0 and a freeze point of -25 degrees Fahrenheit. Glyclean Extender = 2 gal at $49.17; Virgin Antifreeze = 8 gal. at $28.00; Filter Usage = 25 micron (1/2) at $6.33 and 5 micron (1/4) at $3.17. Total is $86.67.
Recycling Process: Precipitation, aeration and filtration
Coolant Cost: $0.80 - $1.00
Capacity: (1) 100 gallons per hour; (2) 18 gallons per hour

High-Tech Industries, Inc.
17029 Devonshire Street, #124
Northridge, CA 91325
Contact: John Randall
Phone: (800) 553-0509, (818) 993-9960
Fax: (818) 993-4317

Machine: ARU Anti-Freeze Recycling Unit - transportable treatment unit; GS-07F-71310 until June 30, 1998
Unit Price: $1,608.77;
Operating Cost: $.10 to $.20 per gallon
Recycling Process: Advanced filtration, aeration, and chemical refortification
Capacity: Not applicable

Kleer-Flo
15151 Technology Drive
Eden Prairie, MN 55344
Contact: Kevin Raberge
Phone: (800) 328-7942
Fax: (612) 934-3909

Machine: (1) AF100; (2) AF250
Unit Price: (1) $4,680; (2) $6,834
Operating Cost: (1) 1st year $9,780; 2nd year $4,800; (2) 1st year $10,684; 2nd year $2,660.
Coolant Cost: (1) $2.40; (2) $1.33
Recycling Process: Chemical pre-treatment, Filtration
Capacity: (1) 30 gallons per hour

Marubeni
450 Lexington Avenue
New York, NY 10017
Contact: John A. Massey
Phone: (212) 450-0403
Fax: (212) 450-0755

Machine: Renewal 2000 Coolant Recycling System; 76 Gal. storage tank; system automatically draws coolant into the system from the vehicle. Returned to radiator with ion-catcher resolver added.
Unit Price: $10,000
Operating Cost: Pre-filter (change every 4,000 liters (1,057 gallons): $50
Ultra-filter (change every 90,000 liters (23,778 gallons): $1,300
Ion-exchange resin (change every 4,000 liters (1,057 gallons): $140
Coolant cost: $1.80 per gallon
Recycling Process: Chemical reaction, micro-filtration, and ion-exchange.
Coolant Cost: $2.45 per gallon (averaged over 23,760 gallons)
Capacity: 79.2 gallons per hour

Robinair
Robinair Way
Montpelier, OH 43543
Contact: Bruce Jensen
Phone: (800) 822-5561
Fax: (419) 485-8300

Machine: Prestone ProClean 75400
Unit Price: $5,995
Operating Cost: 2 pleated filter ion exchanger cartridges; 1st year $12,475; 2nd year $6,080
Coolant Cost: $3.04
Recycling Process: Chemically assisted filtration
Capacity: 40 gallons per hour

Wynn Oil Company
1050 West 5th Street
Azusa, CA 91702
Contact: Pat Dixon
Phone: (818) 334-0231
Fax: (818) 334-1456

Machine: (1) Du-All; (2) Mark X
Unit Price: (1) $2,994; (2) $2,394
Operating Cost: (1) 2 filters/45 gal, included with Chemical additives/inhibitor kit or $2.38 per gallon; (2) 2 filters/7 vehicles $6.67/filter included with chemical treatment kit or $5.18 per gallon; (1) 1st year $8,054; 2nd year $4,760; (2) 1st year $13,754; 2nd year $10,360
Recycling Process: Chemical assisted filtration
Coolant Cost:(1) $2.38 per gallon; (2) $5.18 per gallon
Capacity: (1) 45 gallons per hour; (2) 1 vehicle/90 minutes