

AIR COOLER CLEANER

DESCRIPTION

A-520 contains a synergistic blend of organic solvents, halogenated hydrocarbons, emulsifiers wetting and dispersing agents. May have a solvent effect on certain plastics.

APPLICATION

A-520 may be used for the cleaning of air coolers on diesel engines when in service. Dismantled air cooler may be cleaned by soaking in a tank containing **A-520**, or by brushing or hand spraying. In-situ cleaning may be accomplished by using a pressure pump and hand lance placed through the air trunk access door with drain to the pump suction. The hand lance should be fitted with a spray nozzle or perforated (following the manufacturer's instruction on in-service cleaning). Apply a 33% solution of **A-520** if the engine is equipped with a dosing pot. Dosage is 2 1/2 - 3 litres (30%) solution per cooler for every 24 hours, or the amount and frequency may be adjusted as needed, depending on conditions.

TURBOCHARGERS

Both air side and exhaust side of turbochargers may be cleaned when dismantled, either by soaking, brushing or hand spraying of **A-520**. Allow for sufficient soaking time.

AIR SIDE

Inject a 33% solution of **A-520** (1 part **A-520** to 2 parts of water) using the dosing pot supplied by the manufacturer, which is connected to the turbocharger. The use of this pot keeps the quantity of cleaning solution under strict control to prevent dosage to the turbocharger or engine. The quantity of **A-520** solution used should be in accordance with the volume of cleaning water recommended by the engine manufacturer of the turbocharger being cleaned. The injection of **A-520** solution should be done while the engine is aerating at full load. The total amount of the solution should be injected into the blower within 4 to 10 minutes. After the injection of **A-520** solution, a fresh water rinse should be performed using the same procedures and quantities of water. The effect of the cleaning operation will show in the increase of supercharging or scavenging pressure, and by the normalization of other temperatures to their rated values.

CONTROL

It is recommended that the pressure drop above the air cooler be registered daily. Alternatively the temperature may be registered at the cooler exit.



EXHAUST SIDE

Reduce maximum rpm, and inject a 33% solution of **A-520** into the exhaust system prior to the protecting grids at the turbine inlet. Cleaning should be performed weekly or as needed. The injection of **A-520** should be made through the cleaning system supplied by the turbocharger manufacturer. The amount of cleaning solution to be injected should be in accordance with the volume of cleaning water recommended by the turbocharger manufacturer. The turbine casing should be drained during the cleaning operation. After the cleaning operation has been performed, the turbocharger should be operated for ten minutes at reduced speed in order to ensure thorough drying, normalization of temperatures, etc.

PHYSICAL PROPERTIES

Flash Point : Above 65°C
Boiling Range : 200 °C - 265°C (392 °F - 509°F)
Specific Gravity : 0.97 gm/cm³
Appearance : Yellowish Brown Liquid

SAFETY AND HANDLING INFORMATION

Protective Measures	Use with good industrial hygiene and avoid direct contact. Wear full protective clothing, impervious gloves, goggles or full-face mask. Use in only adequately ventilated areas, equivalent to outdoors.
Spillage & Disposal	Remove all ignition sources and isolate area. Stop leak at source if this is possible. Recover free liquid and ventilate area. Keep petroleum products out of sewers and water courses by impounding. Absorb residue with dry sand or earth. Dispose off absorbed residue as per local authority requirements.
<u>FIRST AID</u>	
Eyes	Rinse eyes with copious amount of water for at least 15 minutes. If irritation persists, seek medical advice.
Skin	Wash skin thoroughly, remove grossly contaminated clothing, including shoes and launder before reuse. Seek medical attention if necessary.
If Inhaled	Evacuate victim to open air. If breathing or circulation has stopped, apply appropriate resuscitation. Keep at rest. Seek prompt medical attention.
If swallowed	Rinse mouth; then drink 1 or 2 large glasses of water. Do not induce vomiting. Seek prompt medical attention. Never give anything via mouth to an unconscious person.
<u>HANDLING</u>	
Storage & Transportation	Product should be stored and transported in original containers. Keep container lid tightly sealed and dry. Store in a cool and dry area, away from direct sunlight, ignition sources and extreme heat. Keep away from open flames.
Packaging	Supplied in 25 litres and 200 litres non-returnable containers.

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