

ORGANIC LONG LIFE COOLANT

Donaldson Engine Cleaning System

To ensure maximum performance from the Donaldson Endurance® range of coolants it is important to have a proper cleaning system in place. This can be achieved using Donaldson's Flush, Descaler and Cooling System Oil Remover. To find out more about these products ask for a copy of Donaldson's Engine Cleaning Systems brochure.

Coolant Testing

A simple coolant maintenance check every oil change or 250 service hours can be performed using Donaldson Coolant Test strips to identify problems with maintenance procedures and operational practices.

Donaldson also recommends that a scheduled coolant analysis program should be conducted at least annually to determine the overall condition of the coolant and cooling system.

Comprehensive Coolant Range

Also available from Donaldson is a comprehensive range of coolant products for Heavy-Duty applications including Radiator Flush and Heavy-Duty Coolant Premix, Concentrate and Booster. For more information see the Donaldson Heavy-Duty Coolant brochure (M0141).

DESCRIPTION	SIZE (LITRES)	PART NUMBER
Donaldson Endurance LLI 7.5 Inhibitor Premix	20	P901864
	205	P901865
	1000	P901866
Donaldson Endurance LLI Inhibitor Concentrate	5	P901860
	20	P901861
	205	P901862
Donaldson Endurance LLC50-N Coolant Premix	1000	P901683
	20	P901888
	205	P901889
Donaldson Endurance LLC-N Coolant Concentrate	1000	P901890
	5	P901884
	20	P901885
Donaldson Endurance LLE Coolant Extender	205	P901886
	1000	P901887
	5	P901892
	20	P901893



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Donaldson offers a wide range of coolant filters and other coolant accessories to suit your application.

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The Donaldson Endurance® Coolant Product Range

All Donaldson Endurance coolant products allow a change interval of 500,000 km or 4 years of service (whichever occurs first) for on-highway trucks, and 6,000 hours or 4 years for off-road trucks (whichever comes first).

Coolant service life for heavy-duty diesel and natural gas engines can be enhanced further to 1,000,000 km or 12,000 hours or 6 years (whichever comes first) using a "once only" Donaldson Endurance LLE organic long life coolant extender supplement dosed at 2% to the cooling water - however this should be coupled with a scheduled laboratory coolant analysis.

The Donaldson Endurance Coolant Product Range features:

- The use of non-depleting organic technology enabling long life protection against scale build up, corrosion, cavitation erosion and pitting of wet sleeve liners for all cooling system metals including aluminium, iron, copper, brass and solder alloys.

- Suitable for use in all heavy-duty diesel and natural gas engines.
- Excellent heat transfer and superior protection in high operating temperatures.
- No adverse effects on rubber hoses and gasket materials.
- Improved water pump life and seal life resulting from fewer dissolved solids.
- Outstanding hot surface aluminium protection.
- Reduces hard water scale and no silicate dropout or gel formation during use or storage.
- Compatible with conventional coolants, including Donaldson's Heavy-Duty coolant range. However, if mixed with other coolants the extended life benefits will be reduced to the performance level of the conventional coolant.
- Doesn't require the fitting of pre-charged coolant filters.



Donaldson Endurance LLC 50-N
Organic Long Life Coolant Premix

Donaldson Endurance LLC 50-N is a ready-mixed antifreeze coolant incorporating an advanced formula technology with virtually non-depleting organic acid corrosion inhibitors. Some nitrites have been added to help protect the cylinder liners from pitting.

Features to note:

- Antifreeze and anti boil. Used as supplied will provide freeze protection to -37°C and raise boiling point to 129°C with a 103 kPa radiator cap.
- Fully formulated and ready to use, does not require dilution.
- Compatible with conventional coolants and can be used for top-up without the need to drain.
- Intended for direct use in the cooling system as initial fill and top-off.
- Meets the Truck Maintenance Council (TMC) recommended practice RP329.
- Contains ethylene glycol.



Endurance LLC-N
Organic Long Life Coolant Concentrate

The Donaldson Endurance LLC-N coolant concentrate when diluted 50% with good quality water will provide optimum year round protection against freezing, boiling and corrosion.

Features to note:

- When diluted 50% with water has same characteristics as **Donaldson Endurance LLC 50-N**
- Can be diluted up to a minimum of 33% or maximum 67% with good quality water depending on the level of frost protection required and/or the engine manufacturer's recommendation.
- **Donaldson Endurance LLC-N** can be added directly to the cooling system as a top-up adjustment of freeze point of the cooling system.
- The **Donaldson Endurance LLC-N** coolant concentrate is also available in a non-nitrited premix 20 litre version for use in European trucks with diesel engines.
- While compatible with hard water the use of soft or deionised water is preferable to minimise scale deposits.
- Contains ethylene glycol.



Donaldson Endurance LLI 7.5
Organic Long Life Inhibitor Premix

Donaldson Endurance LLI 7.5 coolant is a ready-to-use blend corrosion inhibitor in deionised water for longlife corrosion protection of engine cooling systems therefore increasing engine component life.

Features to note:

- Easy maintenance with no pre-charging or recharging of inhibitors.
- Ready-to-use formula eliminates the need for messy mixing and guesswork on initial fill and top-up.
- Contains no ethylene glycol but is compatible with conventional inhibited glycol or water based engine coolants, and can be used for top-up without the need to drain.
- Environmentally friendly with low toxicity to marine life, it is biodegradable, with no harmful borates, molybdates, phosphates, amines or nitrites.



Donaldson Endurance LLI
Organic Long Life Inhibitor Concentrate

Donaldson Endurance LLI is an inhibitor concentrate that requires mixing with water in a ratio of 7.5% LLI to 92.5% water. **Donaldson Endurance LLI** can also be used to correct imbalances in **Donaldson Endurance LLI 7.5** coolant concentration caused by dilution.

Features to note:

- When diluted 7.5% with water has same characteristics as **Donaldson Endurance LLI 7.5**.
- Utilisation of highly efficient non-depleting organic acid technology for long-term corrosion protection of all cooling system metals, increasing engine component life for diesel and gas powered engines.
- Contains no ethylene glycol but is compatible with conventional inhibited glycol or water based engine coolants.
- Environmentally friendly with low toxicity to marine life, it is biodegradable, with no harmful borates, molybdates, phosphates, amines or nitrites.