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Title: New Synthetic Oil for Eaton and Spicer Transmissions

Applies To: Eaton and Spicer Starting 04/01/2006

DESCRIPTION

International Truck and Engine Corporation ® assembly plants are installing a new synthetic transmission fluid in all Eaton ® and Spicer ® manual transmissions. This includes Eaton ® Autoshift and Ultrashift models. This new synthetic fluid must be used in all above mentioned transmissions built after 04/01/2006. Failure to do so will void Eaton ® extended warranty. The International ® part number for this new synthetic fluid is 2645218R1. Please note that this new fluid is amber in color. This new synthetic fluid is completely compatible with the old synthetic fluid (red) and can be used to top off transmissions that are low on fluid even though they have the old synthetic fluid (red) in them. If a transmission built before 4/1/2006 is at or past the recommended drain interval, it is acceptable to use up your old style synthetic fluid (red), but the new style synthetic fluid (amber) should be used as soon as possible

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***Please read attached Newsletter from COGNIS synlubes technology**

To meet the new Eaton ® PS-164 Rev.7 Extended Drain Specification, Cognis ® has developed a new full synthetic transmission lubricant referred to as Emgard 2979 SAE 50. Cognis ® is completing all major OEM component approvals. This newsletter will provide customers / rebrander with basic information, to prepare your systems and organizations with necessary information.

EMGARD 2979 Synthetic SAE 50 Manual Transmission Lubricant (Roadranger ® SAE 50) intends to meet or exceed all OEM extended drain component performance requirements:

- API MT-1
- Eaton ® PS 164 rev 7
- ArvinMeritor® O-81 (pending)
- International ® TMS 6816
- Mack Truck TO-A-PLUS
- ZF TE-ML 02L (pending)

EMGARD 2979 SAE 50 (Roadranger ® , SAE 50) provides proven field tested performance benefits such as:

- Maximum drain interval up to 500,000 miles
- Improved gear and bearing protection
- Excellent seal compatibility to insure long life
- Maximum extreme hot and cold temperature performance

FAQ - related to the new product roll out: EMGARD 2979 SAE 50 / Roadranger ® SAE 50

Commercialization Date?

Emgard 2979 (Roadranger ® SAE 50) will be launched in April 2006.

Why did the Eaton ® specification Change?

The current Cognis ® product was designed in the 1970's. Since that time, many changes have occurred with the transmission design, engine horsepower and driver preference. The new product was specially formulated for improved wear performance, all temperature performance and fuel economy.

Was the change absolutely necessary?

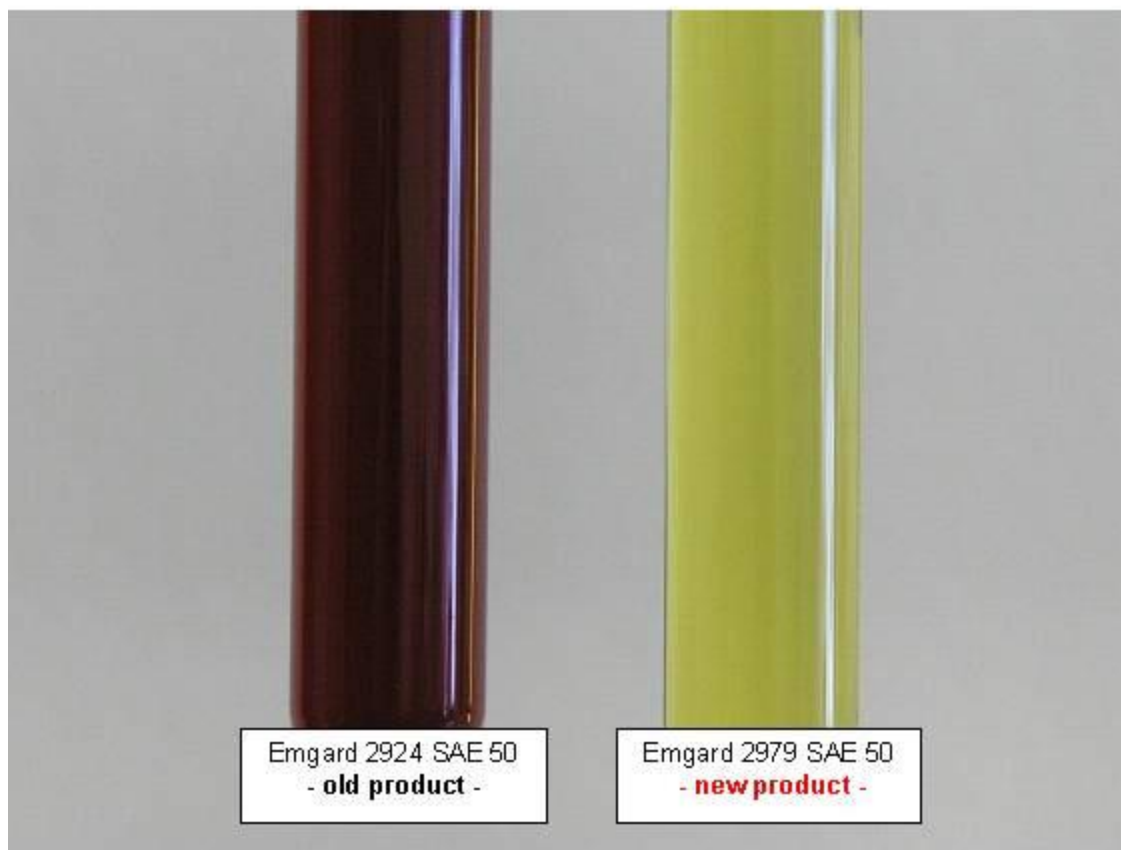
The change was necessary to receive Eaton ® 's approval under their new PS-164 Rev. 7 Specification for extended warranty and drain with their transmissions.

Can we continue to use the old Roadranger ® approved lubes?

We are advising customers to use up inventory of the existing lubricant, and begin ordering the new approved lubricant that meets Eaton ® 's PS-164 Rev 7. The existing Roadranger ® approved lubricant can still be used in currently running trucks, however we recommend that when servicing these vehicles, use the new lubricant, as they are completely compatible.

Why is the new Roadranger ® approved gear lubricant a different color? Most transmission lubricants are red, why choose amber?

A color is not specified in Eaton ® 's PS-164 Rev 7. Cognis chose to maintain the natural color for the new MTF, which is Amber (please refer to color chart below).

**Will it stay amber after it has been used in the transmission?**

No, all transmission and axle gear lubricants will turn dark within several thousand miles of service. This is a normal process since one of the tasks of gear lubricants is to keep the gear parts clean. The dark coloration comes from dispersed wear particles and reacted additives, which are typical for automotive power train lubricants.

Will the amber color affect oil analysis?

The same type of oil analysis and laboratory methods may be used for the new products compared to the older Roadranger® approved SAE 50 lube. Because the formulation is different, it will have a different "elemental fingerprint" than the older product.

Will the amber color have any affect on the packaging materials?

All automotive gear lubricants have a color. Some have color from the additives and base stock used. Some have a dye added. All gear lubes will stain light colored (white, clear, tan) polyethylene containers under extended storage conditions (greater than 1 year). Darker colored polyethylene containers (blue, black, gray) do not show any staining. Special coatings for the light colored containers have been investigated to minimize the staining from the amber SAE 50.

Will the amber SAE 50 gear lube stain, or harm, the trucks' finish?

Power train gear lubricants are not recommended for direct contact on painted body panels on cars or trucks. The base stocks utilized can be corrosive to the polymer clear coat used in modern vehicles. The Roadranger® SAE 50 is no better or worse than other commercial transmission fluids for this aspect.

Can I mix the new Roadranger® approved lube and the old Roadranger® approved product?

The new Roadranger ® lubricant is fully compatible with the current Roadranger ® product. Because of the color difference, any mixtures will appear as an intermittent color. Any top-off in an in-service transmission will result in a black color due to the strong used oil coloration.

Can I top off with the new product when the old product is still within the drain interval?

The new product can be used for topping off an older filled transmission. If the recommended drain interval has been exceeded, it is recommended to fully drain the unit prior to refilling with the new product.

Can I mix the Roadranger ® approved products with other brands?

Both the new and old Roadranger ® approved transmission products are compatible with most competitive synthetic and petroleum based transmission lubricants. Mixing of products is not recommended, but the industry realizes that some mixing will occur and have instituted compatibility testing to minimize any adverse reaction.

Any mix will decrease your performance level depending on the level in which it is mixed.

Are there any special concerns when handling this product?

The Roadranger ® approved SAE 50 lube is a global commercialized product that contains no detrimental or hazardous components.

How much of the old products can be left in the transmission without damaging the performance of the new product?

The new Emgard 2979 SAE-50 lubricant is fully compatible with the old Emgard 2924 SAE-50 at any % or ratio. At the end of the designated drain interval, the older product should be drained well, but no flushing or rinsing is necessary when introducing the new product.

My trucks are older. Will the new Eaton ® -approved lube cause the seals to change and leak?

No, if you are currently using the older Eaton ® approved SAE 50 lube. The new Eaton ® -approved lube will give the same or improved seal performance compared to the older product.

If you are using petroleum SAE 50, under high mileage conditions (greater than 150,000 miles), the introduction of a synthetic gear lubricant can result in fluid leakage. This is because the petroleum based products tend to harden and shrink seals causing them to assume a "set". The introduction of synthetic gear lube can then cause irregular swelling and softening of the elastomer resulting in leakage. A mineral to synthetic change on older / high mileage trucks require a seal / filter change.

Are there any differences I should be aware of in handling, or storing, between the old and the new Roadranger ® approved lubricants?

The same precautions and handling conditions should be used with the new Roadranger ® SAE 50 lubes as with the older Roadranger ® product and other commercial brands of SAE 50 transmission lube.

Question regarding warranty protection?

Warranty questions should be directed to the component OEM.

Further steps:

We are glad to service and update you as soon we have more information.

For marketing related questions, please contact:

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