

# ROYAL DUAL-GUARD 18

**BOOSTS VISCOSITY**

**FOR ENGINES,  
TRANSMISSIONS GEARS &  
HYDRAULICS**

**NEUTRALIZES ACIDS**

**HELPS CLEAN**

**HELPS PROVIDE EXTRA  
PROTECTION**



**AUTO SHOPS**

**FLEET SERVICES**

**MACHINE SHOPS**

**AGRICULTURE**

**MANUFACTURING**

**TRANSPORTATION**

## **BOOSTS VISCOSITY**

**DUAL-GUARD 18** has the ability to boost viscosity to help prevent metal to metal contact. This "shot in the arm" allows all bearings and other metal surfaces to receive vital extra protection. **DUAL-GUARD 18** provides added life expectancy to the lubricant and to the parts. Just think, fewer breakdowns and fewer unnecessary expenses are possible with **DUAL-GUARD 18**.

An important part of **DUAL-GUARD 18** is a polymer so small you can only see it under a microscope. However, the polymer is a giant when it comes to performance. The polymer "coils up" in cold temperatures to allow the lubricant to flow quickly. In hot conditions the polymer "uncoils" to hinder the oil molecules more, causing less viscosity thinning. As you can see, with less thickening at low temperatures and less thinning at elevated temperatures the lubricant has more desirable characteristics.

## **FOR ENGINES, TRANSMISSIONS GEARS & HYDRAULICS**

For crankcase oils, use ratios of 2 1/2% up to 10% **DUAL-GUARD 18**. In general, **DUAL-GUARD 18** helps engines run cooler. **DUAL-GUARD 18** can help control oil consumption, improve piston ring seal, improve combustion and reduce blow-by. **DUAL-GUARD 18** can help a hydraulic system by gently removing a deposit from a control valve to improve spongy performance. A gearbox could give better performance by running cooler with less friction and better lubrication to reduce wear.

## **NEUTRALIZES ACIDS**

Speaking of wear, **DUAL-GUARD 18** helps combat wear caused by corrosion from acids created by burning fossil fuels. **DUAL-GUARD 18** has a TBN boost to help neutralize harmful acids. This enrichment of the TBN is practically non-existent in competitive products in spite of some claims to the contrary.

## ***HELPS CLEAN***

**DUAL-GUARD 18** can provide help to eliminate troublesome deposits. For example, in a hydraulic system the mixing ratio of 1% to 5% **DUAL-GUARD 18** can gently remove sludge deposits from a hydraulic system to improve sluggish performance. In a transmission or gear system a bearing could be cleaned to promote better lubrication of the bearing. **DUAL-GUARD 18** can gently clean piston ring deposits to help an engine reduce oil consumption, as well as help reduce piston scuffing and improve compression.

## ***HELPS PROVIDE EXTRA PROTECTION***

It is always best to add **DUAL-GUARD 18** to warm oil and to run the equipment immediately after putting **DUAL-GUARD 18** in the oil. This will ensure the product is thoroughly mixed in the oil and **DUAL-GUARD 18** has had a chance to coat all parts that come in contact with oil. Once a piece of equipment has been thoroughly coated with **DUAL-GUARD 18**, it is possible to go through extended idle periods without moisture and rust problems due to the increased ability of the oil to stay in contact with the metal parts for longer periods of time. If you discover additional **DUAL-GUARD 18** is needed, for whatever reason, it can be added to warm oil as long as you do not exceed a total of 10% in crank case oils or a total of 5% in transmission, gear or hydraulic systems.

### **MIXING RATIOS**

#### **ENGINE OILS:**

2½% up to 10%, or  
4 oz. up to 16 oz.  
to 5 quarts of oil

#### **TRANSMISSIONS, GEARS, & HYDRAU- LICS:**

1% up to 5% or  
3 oz. up to 16 oz.  
to 10 quarts of oil

#### **FOR WET BRAKE SYSTEMS:**

1% to 2% or  
3 to 6 oz.  
to 10 quarts of oil  
*(Not suggested with  
a Polyalkylene  
Glycol Based  
Synthetic)*

### **SPECIFICATIONS**

#### **TYPICAL ANALYSIS**

#### **RESULTS**

Viscosity @40°C, cSt	1500
Pour Point, °F	-5
Flash Point, °F	165
Specific Gravity	.87
Weight/gallon	7.25



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842 N. Main St. Fort Worth, TX 76164  
sales@royalus.com  
(800) 332-1926

