

ULTRA TORQUE

REDUCES HARM

PROTECTS PUMPS

STABILITY

**SUPPRESSES BRAKE
CHATTER**

RESISTS FOAMING

CONTAINS GEM TAK



**CONSTRUCTION/EXCAVATING
QUARRIES/AGGREGATE
CONCRETE/ASPHALT PLANTS
DREDGING/DAG LINE
POWER/WATER PLANTS
ELECTRIC MOTORS
RECYCLING PLANTS
ETHANOL PRODUCTION
STEEL MILLS/MINI MILLS
CENTRIFUGES
METAL WORKING/STAMPING
DRILLING/PIPELINE
TRANSPORTATION
AGRICULTURAL EQUIPMENT**

REDUCES HARM

ULTRA TORQUE offers many important benefits, including exceptional anti-wear protection. The slightly tacky nature of the product helps it cling to gears extremely well and absorb shock load produced by variations in load and drive, engine torsional activity or vibration, shifting, and wheel slip. **ULTRA TORQUE** will also reduce the impact caused by the meshing of gears, particularly on start-up.

PROTECTS HYDRAULIC PUMPS

ULTRA TORQUE's formulation has a superior anti-wear zinc additive level of .20, which is four to five times the zinc found in most conventional oils. As a result of this extra anti-wear enrichment, in the Eaton-Vickers Ring and Vane Wear Test, **ULTRA TORQUE** showed impressive results. After this 150 hour test is run on an oil, the total weight loss of the cam ring and vanes is measured. **ULTRA TORQUE** greatly exceeded this test, with results showing less than 50% of the allowable wear to the ring and vanes.

THERMAL & OXIDATION STABILITY

Fluid oxidation is a chemical reaction between the fluid and oxygen. It can be responsible for viscosity increase, varnish formation, sludge and sediment formation, additive depletion, base oil breakdown, filter plugging, loss in anti-foam properties, acid number increase, as well as rust and corrosion. Controlling oxidation is a significant challenge in trying to extend the lubricants life. Royal Oil Co. uses new generation base oils that are more oxidation stable and a much greater quantity of powerful anti-oxidation chemistry than is necessary to pass equipment manufacturers test. As a result, **ULTRA TORQUE** handles high temperatures and provides severe oxidation protection. Testing procedures for the Allison specification requires a minimum 320F. flash point. **ULTRA TORQUE** has a typical flashpoint of 485F., providing a much higher degree of protection against high temperatures and oxidation.

SUPPRESSES BRAKE CHATTER

ULTRA TORQUE is also great for suppressing brake chatter in equipment like farm tractors. In the New Holland (Ford 7610 Test), **ULTRA TORQUE** provided a 20% reduction in decibel rating in this particular wet brake chatter suppression test. In the John Deere JDQ 41/42 test, **ULTRA TORQUE** provided a 56% reduction in total chatter. This means **ULTRA TORQUE** suppresses brake chatter, but does so in a manner that does not rob the brakes of their needed capacity.

RESISTS FOAMING

Liquids are basically incompressible, but when air bubbles are introduced into a system, it becomes a problem. Since air is compressible, a fluid contaminated with air bubbles, compresses and does not transmit full pressure in a hydraulic system. Royal Oil Co. faces this problem head-on by incorporating large amounts of excellent foam inhibitors in **ULTRA TORQUE** - - when the foam is kept to a minimum, operation will not be hampered. Temperatures can be reduced, film thickness of the oil can be maintained, pressures and power in the system can be optimized.

CONTAINS GEM TAK

ULTRA TORQUE contains gem tak which is a tackiness additive. Gem tak helps **ULTRA TORQUE** cling applications better than any other torque fluid in the industry.

ULTRA TORQUE meets the specifications of ACGO, Case, John Deere, Kubota, Massey Ferguson, New Holland and more. For complete cross reference please call Royal headquarters.

CHARACTERISTICS:	INDUSTRY TYPICAL	ULTRA TORQUE
Dielectric Strength	N/A	35,000+ Volts
Percent Weight of:		
Calcium		.42
Zinc, Minimum		.20
Phosphorous, Minimum		.11
Viscosity Index		170
Viscosity, cSt at 40°C, Minimum		55.0
Viscosity, SUS at 100°C. (212°F.), Minimum	9.1	9.1
Viscosity at 0°F. (-18°C.) Brookfield, cps., Max.	4,500	3,650
Flash Point, °F., Minimum 392 (200°C.) 485		
Pour Point, °F., Maximum	-38°F. (-37°C.)	-40
Copper Strip Corrosion, Maximum	--	1
Viscosity Index, minimum	--	165
Timken Abrasion Test (6 hrs. at 10 lb. Lever Arm Load), mg. Wt. Loss, Max.	1.5	0.6
Oxidation Test (100 hrs. at 300°F.) Evaporation Loss, % Maximum	5	1.5
Viscosity Increase at 100°C. % Maximum	10	4.0
Additive Separation	None	None
Sludge Formation	None	None
Water Sensitivity	Must Pass	Passes
Rust Protection (John Deere Procedure) hours, Minimum	100	Passes
Compatibility with other oils with Rubber at 70 hrs. at 212°F., percent volume change	0 to +5	+0.28
Precipitation, Maximum	None	None
Mean Hertz Load, Kg.	---	57.7
Seizure Load, Kg.	---	141
Weld Load, Kg.	---	316



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