



PRO-TAC IV

EXCEL

EXCELERATED PROTECTION

◆ Proven Performance

PRO-TAC IV EXCEL is formulated with an enhanced additive chemistry, and provides outstanding proven lubricant performance in transmissions, final drives and hydraulic systems in Allison, Caterpillar, Dana Powershift, Komatsu, Komatsu Dresser, Tremec/TTC, Vickers and ZF equipment.

◆ Boosted Additive Chemistry Benefits

In addition to the high-quality base oils used in the formulation, PRO-TAC IV EXCEL also contains a boosted level of additive chemistry to protect the life of your equipment. Anti-wear additives help protect the metal surfaces against scuffing, even under high temperatures and high load. Special friction modifiers help to prevent clutch slippage, offering peak performance of the transmission and brakes while minimizing wear. Oxidation and corrosion inhibitors, as well as foam inhibitors, round out the boosted additive chemistry in PRO-TAC IV EXCEL.

◆ Superior Cold Weather Operability

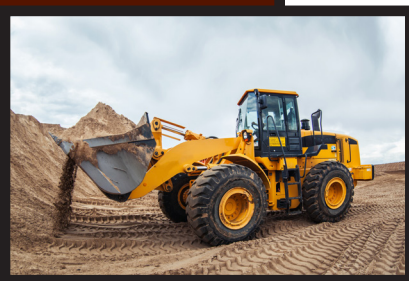
PRO-TAC IV EXCEL offers superior cold weather protection compared to a transmission and final drive oil you might be used to putting in your equipment. Compared to other transmission and final drive oils on the market, our 30 weight PRO-TAC IV EXCEL offers an additional 22 degrees of protection below zero. For many applications, this means not having to change fluids for colder temperature protection against start-up wear.

◆ Tackifiers for Superior Gear Protection

A truly unique characteristic of PRO-TAC IV EXCEL is the additive of special tackifiers to the formulation. This additional additive helps to maintain exceptional protection for the gear components. By maintaining a film of protection, wear is reduced dramatically, temperatures are reduced, and the equipment can operate efficiently for longer hours under harsh conditions.

◆ A Versatile Product for Many Industries

PRO-TAC IV EXCEL is a product beneficial to many industries, not limited to Logging, Mining, Construction, Trucking, Excavation, Landscaping, Municipalities and Water/Refuge/Recycling Facilities! The enhanced additive chemistry in this product provides outstanding lubricant performance in transmissions, hydraulics and final drive systems. It not only meets/exceeds the Caterpillar TO-4/TDTO specification but can also be used in over-the-road synchronized transmissions. The SAE 50 viscosity can be used in truck transmissions needing a 50-weight viscosity non-synthetic transmission fluid. PRO-TAC IV EXCEL may be able to reduce your lubricant inventory through consolidation!



**Made In The
U.S.A.
Since 1922**

Formulated to meet/exceed the following specifications:

Caterpillar TO-4 (SAE 10W, 30, 50)

Komatsu KES 07.868.1 (SAE 10W, 30, 50)

Allison C-4 (SAE 10W, 30)

ZF TE-ML 03C (SAE 10W, 30)

ZF TE-ML 07F (SAE 30W)

Dana Powershift (SAE 10W, 30)

Spicer Clark-Hurth Powershift (SAE 10W, 30)

Tremec/TTC Manual Transmissions (SAE 50W)

Eaton/Fuller/Dana/Spicer Manual Transmissions (SAE 50W)

Vickers 35VQ25 Pump Test (SAE 10W)

SPECIFICATIONS

PRO-TAC IV EXCEL

SAE Grade	TYPICAL TESTS		
	SAE 10	SAE 30	SAE 50
Product Code #	6765	6763	6764
API Gravity	29.0	27.0	26.1
Specific Gravity	0.88	0.89	0.90
Weight per Gal., Lbs.	7.28	7.40	7.47
Flash Point, °F. (°C.)	420 (215)	460 (238)	460 (238)
Fire Point, °F. (°C.)	455 (235)	500+ (260+)	500+ (260+)
Pour Point, °F. (°C.)	-35 (-36)	-22 (-30)	-0.5 (-18)
Viscosity, SUS at 100°F.	207	550	1080
Viscosity, SUS at 210°F.	47.6	66.1	91.8
Viscosity, 40°C. cSt	43.86	118.77	226
Viscosity, 100°C. cSt	6.48	11.9	18.21
Viscosity Index	105	105	105
Copper Strip Corrosion, (2 Hrs. @ 100°C.)	1A	1A	1A
Fluid Compatibility	Pass	Pass	Pass
Homogeneity	Pass	Pass	Pass
Foam Test	0/0	0/0	0/0
TO-4 Fluoroelastomer Seal Test	Pass	Pass	Pass
FZG Gear Wear	Pass	Pass	Pass
Vickers Pump Test	Pass	NR*	NR*
C-4 THOT	Pass	Pass	Pass
VC 70 Friction Test	Pass	Pass	Pass
Brookfield Viscosity, cPs	86,000 @ -35° C.	134,000 @ -25°C.	135,000 @ -15°C.
High Temperature High Shear at 150°C.	2.22	3.42	5.0
Calcium, Wt. %	0.31	0.31	0.31
Zinc, Wt. %	0.12	0.12	0.12
Phosphorus, Wt. %	0.11	0.11	0.11
Color	Green	Green	Green
Allison C-4 Approval	C4-24292896	C4-24302896	—

TEXAS REFINERY CORP

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