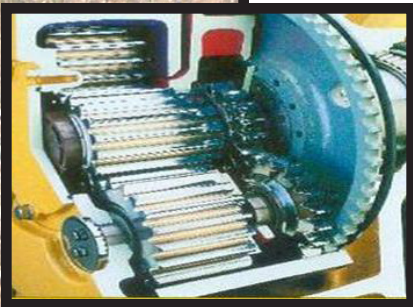




PRO-TAC IV EXCEL

EXCELERATED PROTECTION



◆ Exceeds TO-4 & C-4

Caterpillar and Allison have both set standards for these types of products, becoming guidelines for the cross reference of acceptable fluids. PRO-TAC IV Excel exceeds the specifications established by these manufacturers, setting a standard for fluid life and protection.

◆ Excellent Cold Weather Operability

Texas Refinery Corp.'s PRO-TAC IV Excel offers excellent low temperature fluidity. PRO-TAC IV Excel's ability to flow well in colder temperatures helps to assure that vital components are protected and will not experience increased wear, especially during cold weather start up.

◆ Designed for Extended Drain Intervals

With industry experts touting the advantages of extended drain intervals, we encourage equipment owners to use products designed to accomplish this feat. Not all products contain adequate additive packages or begin with the quality base oils necessary to establish effective, safe, and cost efficient extended drain intervals. PRO-TAC IV Excel was designed with this purpose in mind.

◆ Eliminates Common Problems

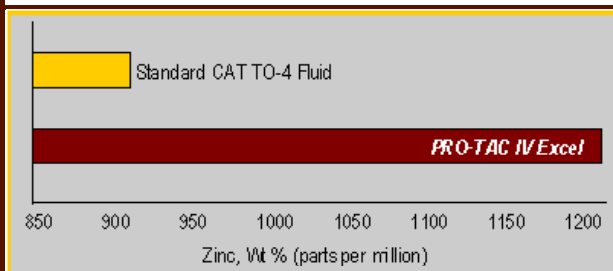
Equipment is run in a variety of environments and by a variety of operators. Foaming, heat, seal deterioration, and wear are common to units using TO-4 fluids. Often run for extended periods of time or over greater distances than originally recommended, PRO-TAC IV Excel provides the added protection designed for the added work these units experience.

◆ Industry Best Additive Package

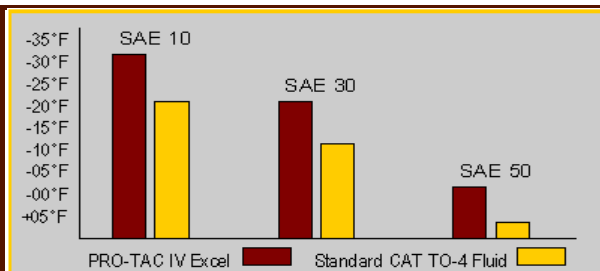
PRO-TAC IV Excel is designed to run longer, perform better, and extend the life of equipment. This begins with the superior base oils used to build this product and is completed with an industry best additive package. A lubricant is only as good as the parts used in it's design, and TRC uses the best products available in the industry today.

◆ Tackifiers for Superior Gear Protection

A truly unique characteristic of PRO-TAC IV Excel is the addition of tackifiers. This additional additive helps to maintain superior protection to gear components. By maintaining a film of protection, wear is reduced dramatically. In addition, as wear is reduced the oxidation process is slowed and the product performs more effectively for a longer period.



One of the most stringent anti-wear specifications in the industry, CAT's 900 ppm of Zinc has set the standard for fluids in these gear and final drive applications. PRO-TAC IV Excel offers 30% better wear protection for your equipment.



PRO-TAC IV Excel's cold temperature fluidity separates it from others and provides equipment with the protection needed in any working environment.

SPECIFICATIONS

PRO-TAC IV EXCEL

Formulated to Meet Allison C-4, Caterpillar TO-4 and API CF and CF-2 Specifications

TYPICAL TESTS

Product Code SAE Grade	6712 SAE 10	6711 SAE 30	6710 SAE 50
Product Code #	6765	6763	6764
API Gravity	29.0	27.0	26.1
Specific Gravity	0.8816	0.8927	0.8978
Weight per Gal., Lbs.	7.341	7.434	7.476
Flash Point, °F. (°C.)	420 (215)	460 (238)	460 (238)
Fire Point, °F. (°C.)	455 (235)	510 (265)	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	106.1	96.6	96.5
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 @ 75°C.
Pumpability 8900 @ -15°C.	9300 @ -25°C.	13,700 @ -10°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	—



CANADA

TEXAS • ONTARIO • SASKATCHEWAN

Phone: 800-827-0711 • www.texasrefinery.ca

PRINTED 10/2015