

# CASE STUDY

## FALEX PIN AND VEE BLOCK TEST WITH COEFFICIENT OF FRICTION ASTM D-3233

### ARCHOIL AR9100 vs ALT MOTORSILK BORIC ACID

#### PRODUCTS TESTED Archoil AR9100 Nanoborate Oil Treatment (Friction Modifier)



AR9100 NANOBORATE			ALT MOTORSILK BORIC ACID			BETTER PERCENT	
TREAT LEVEL	3.5 % IN 100 NEUTRAL		ADDITIVE NEAT FROM BOTTLE				
	LOAD	TORQUE	COF	LOAD	TORQUE	COF	
	500	12	0.0713	500	16	0.0951	25.0%
	1000	19	0.0585	1000	24	0.0713	18.0%
	1250	21	0.0499	1250	FAIL		INFINITY
	1500	24	0.0476				INFINITY
	2000	31	0.0461				INFINITY
	2500	35	0.0416				INFINITY
	3000	38	0.0377				INFINITY
	3500	43	0.0365				INFINITY
	3750	47	0.0373				INFINITY
	4000	FAIL					INFINITY

This analysis was done to give the ALT additive the best possible result.

If the ALT additive was treated at its use level, the result would be more dramatic