



Tribology and
Petroleum Test
Equipment for
Over 80 Years

Falex Corporation

1020 Airpark Drive
Sugar Grove, IL 60554 U.S.A.
Phone: (630) 556-3669
Fax: (630) 556-3679
E-mail: lab@falex.com
Website: www.falex.com

Falex Tribology N.V.

Rotselaar, Belgium

Company: **AmberTech**
Date: January 16, 2012
Technician: T. LeValley

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Project No. 12-03
Test No. 0012044
Test Date: January 13, 2012

Method: ASTM D2670, Measuring Wear Properties of Fluid Lubricants

Machine: Falex Pin and Vee Block Test Machine
Serial No. 9-000-361-1431-8

TEST PARAMETERS	
Speed (rpm):	290 (\pm 10)
Temperature ($^{\circ}$ C):	24 (\pm 3)
Load (lb-direct):	250 / 700
Duration (min):	5 / 15
Lubricant ID:	AmberTech Concentrate
Falex TL No.	4128

TEST SPECIMENS	
Pin ID:	000-503-017
Falex TL No.	3585
Material:	SAE 3135 Steel
Finish (rms):	5-10
Hardness (Rb):	87-91
Vee Block ID:	000-502-100
Falex TL No.	3585
Material:	AISI C-1137
Finish (rms):	5-10
Hardness (Rc):	20-24

TEST RESULTS				
Load (lb)	Duration (min)	Torque (in-lb)	Temperature ($^{\circ}$ C)	Gear Tooth Number
250	0	6.7	25.2	
250	5	7.4	40.9	
700	0	20.1	43.9	514
700	5	11.3	58.7	514
700	10	10.1	62.6	514
700	15	9.5	68.5	514
700	Final	11.1	68.9	527
			TOTAL TEETH WEAR:	13

COMMENTS: 1) Tooth count is an indication of wear, which in this test is based on the number of ratchet wheel teeth advanced during the test while maintaining load.

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ASTM D2670

