



Tribology and
Petroleum Test
Equipment for
Over 80 Years

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Falex Tribology N.V.
Rotselaar, Belgium

Company: **AmberTech**
Date: January 17, 2012
Technician: M Rapp

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Project No. 12-03
Test No. 1908155
Test Date: January 16, 2012

Method: ASTM D4172, Method B, Wear Preventive Characteristics of Lubricating Fluid

Machine: Falex Four-Ball Wear Test Machine
Serial No: 221-7-87-VD

TEST PARAMETERS	
Speed (rpm):	1200 (±50)
Temperature (°C):	75 (±1.7)
Load (kgf):	40 (±0.2)
Duration (min):	60 (±1)
Lubricant ID:	AmberTech Concentrate
Falex TL No.	4128

TEST SPECIMENS	
Ball Material:	AISI-E52100
Hardness (HRc):	64-66
Grade:	25EP
Falex Lot No.	150

TEST RESULTS						
WEAR DATA				FRICTION DATA		
Ball Scar Diameter (mm)				Time (min)	Friction (g)	CoF
Axis	Ball 1	Ball 2	Ball 3			
X	0.673	0.685	0.664	0	121.8	0.051
				15	231.1	0.098
				30	209.3	0.089
				45	207.5	0.087
				60	204.3	0.087
AVERAGE BALL SCAR DIAMETER:			0.689	AVERAGE CoF:		0.082

COMMENTS:

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ASTM D4172B

