

# ASTM D2266

## Wear Preventative Characteristics of Lubricating Grease



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**Falex Tribology N.V.**  
 Rotselaar, Belgium

Tribology and  
 Petroleum Test  
 Equipment for  
 Over 80 Years

Company: **AmberTech**  
 Date: February 22, 2013  
 Technician: M Rapp

Page: 1  
 Project No. 13-26  
 Test No. 1908215-A  
 Test Date. February 21,2013

Method: ASTM D2266, Wear Preventitive Characteristics of Lubricating Grease

Machine: Falex Four-Ball Wear Test Machine  
 Serial No. 1100605

TEST PARAMETERS	
Speed (rpm):	1200 (±50)
Temperature (°C):	75 (±1.7)
Load (kgf):	40 (±0.2)
Duration (min):	60 (±1)
<b>Lubricant ID:</b>	<b>AmberTech HP Grease</b>
Falex TL No.	4811

TEST SPECIMENS	
Ball Material:	AISI-E52100
Hardness (Rc):	64-66
Grade:	25EP
Falex Lot No.	204
Falex TL No.	4584

TEST RESULTS						
WEAR DATA				FRICTION DATA		
Ball Scar Diameter (mm)				Time (min)	Friction (g)	CoF
Axis	Ball 1	Ball 2	Ball 3			
X	0.513	0.516	0.505	0	223.3	0.095
Y	0.513	0.524	0.515	15	234.5	0.100
				30	246.3	0.104
				45	233.2	0.099
				60	229.3	0.098
<b>AVERAGE BALL SCAR DIAMETER:</b>			<b>0.514</b>	<b>AVERAGE CoF:</b>		<b>0.099</b>

**COMMENTS:**

**DEFINITIONS:**

**aVERAGE BALL SCAR DIAMETER, mm**

The average size of the scar diameters worn on the three lower clamped balls, used for comparison of lubricants

**COEFFICIENT OF FRICTION, u**

The dimensionless ratio of the friction force between the rotating ball and the three stationary balls to the normal force pressing these bodies together



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