


Annex of the Certificate (Page 1/3)

Scope of accreditation

	OPET MADENİ YAĞ SANAYİ ve TİCARET A.Ş. Opet Madeni Yağ ve Katıkları Laboratuvarı Accreditation No: 35004-01 Revision No: 0 Date : 30 Mart 2005	
	Testing Laboratory's	
	Address : Atatürk Organize Sanayi Bölgesi, 10006 Sokak No:12 - Çiğli 35620 İzmir / TÜRKİYE	Phone : +90 232 376 78 38 Fax : +90 232 376 78 39 E-mail : romlab @opet.com.tr Website : www.opet.com.tr

Tested Materials/Products	Name of Test	Testing Method (national, international standards, inhouse methods)
Petroleum products and Lubricating oils	Petroleum products determination of color (ASTM Color Scale)	TS 1713 ISO 2049 Petroleum Products – Determination of colour (ASTM SCALE)
		ASTM D 1500 Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
	Determination of density	TS 1013 EN ISO 3675 Crude petroleum and liquid petroleum products – Laboratory determination of density or relative density – Hydrometer method
		ASTM D 1298 Standard Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
	Determination of Kinematic Viscosity	TS 1451 EN ISO 3104 Petroleum Products – Transparent and opaque liquids – determination of kinematic viscosity and calculation of dynamic viscosity
		ASTM D 445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (the Calculation of Dynamic Viscosity)
	ASTM D 446 Standard Specifications and Operating Instructions for Glass Capillary Kinematic Viscometers	

Annex of the Certificate (Page 2/3)

Scope of accreditation




OPET MADENİ YAĞ SANAYİ ve TİCARET A.Ş.
Opet Madeni Yağ ve Katıkları Laboratuvarı

Accreditation No: 35004-01
Revision No: 0 Date : 30 Mart 2005

Tested Materials/Products	Name of Test	Testing Method (national, international standards, inhouse methods)
Petroleum products and Lubricating oils (Cont' d)	Petroleum products calculation of viscosity index from kinematic viscosity	TS 3096 ISO 2909 Petroleum Products – calculation of viscosity index from kinematic viscosity
		ASTM D 2270 Standard Practice for Calculating Viscosity Index from Kinematic Viscosity at 40 °C and 100°C
	Determination of Flash point (Cleveland open cup method)	TS 123 EN 22592 Petroleum Products – determination of flash and fire points - Cleveland open cup method
		ASTM D 92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup tester
	Determination of pour point	TS 1233 ISO 3016 Petroleum Products – determination of pour point
		ASTM D 97 Standard Test Method for Pour Point of Petroleum Products
	Determination of foaming characteristics	TS 1834 ISO 6247 Petroleum Products – determination of foaming characteristics of lubricating oils
		ASTM D 892 Standard Test Method for Foaming Characteristics of Lubricating Oils
	Petroleum products - Determination of Base number	TS 5655 ISO 3771 Petroleum Products – determination of base number – perchloric acid potentiometric – indicator titration method
		ASTM D 2896 Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration

Annex of the Certificate (Page 3/3)

Scope of accreditation

	<p style="text-align: center;">OPET MADENİ YAĞ SANAYİ ve TİCARET A.Ş. Opet Madeni Yağ ve Katıkları Laboratuvarı</p> <p style="text-align: center;">Accreditation No: 35004-01 Revision No: 0 Date : 30 Mart 2005</p>
---	---

Tested Materials/Products	Name of Test	Testing Method (national, international standards, inhouse methods)
Engine Coolants	Determination of pH	TS 4614 pH of engine Antifreezes,antirusts and coolants
		ASTM D 1287 Standard Test Method for pH of Engine Coolants and Antirusts
	Determination of Reserve Alkalinity	TS 3582 Antifreeze (Engine coolant concentrate)
		ASTM D 1287 Standard Test Method for Reserve Alkalinity of Engine Coolants, and Antirusts

END OF SCOPE

Assoc.Prof.Yavuz CABBAR
Head of Management Board

Atakan BAŞTÜRK
Secretary General