



# CERTIFICATE OF QUALITY LABORATORY REPORT

HELLENIC PETROLEUM S.A.

ELEFSIS REFINERY

PRODUCT:

DIESEL AUTOMOTIVE

PROPERTIES		RESULTS	METHOD
DENSITY at 15 °C	Kg/m <sup>3</sup>	834.9	EN ISO 12185
COLOUR		0.5	ASTM D1500
APPEARANCE		CLEAR BRIGHT	
DISTILLATION I.B.P.	deg C		prEN ISO 3405/98
DISTILLATION 5%	deg C		
DISTILLATION 10%	deg C		
DISTILLATION 20%	deg C		
DISTILLATION 50%	deg C		
DISTILLATION 65%	deg C	294	
DISTILLATION 85%	deg C	320	
DISTILLATION 90%	deg C		
DISTILLATION 95%	deg C	344	
DISTILLATION F.B.P.	deg C		
FLASH POINT	deg C	82	EN 22719
SULFUR	ppm	45	EN ISO 8754/95
COPPER CORROSION		1A	EN ISO 2160
C.F.P.P.	deg C	-10	EN-116
VISCOSITY KINEMATIC at 40°C	cst	3.2	EN ISO 3104
POUR POINT	deg C		ISO 3016
CETANE INDEX		55.2	EN ISO 4264
CETANE NUMBER		55.5	EN ISO 5165
CARBON CONRADSON RESIDUE	% wt	0.01	EN ISO 10370
ASH	% wt	0.003	EN ISO 6245
LUBRICITY (wsd1.4) at 60 °C	µm	190	ISO 12156-1
OXIDATION STABILITY	g/m <sup>3</sup>	10	EN ISO 12205
SUSPENDED MATTER	g/m <sup>3</sup>	8	EN 12662
FAME content	%v/v	2.0	EN 14078
WATER	ppm	140	prEN ISO 12937/96
POLYCYCLIC AROMATIC HYDROCARBONS	% wt	4.2	IP - 391

CHIEF CHEMIST: