

## OFF-ROAD DIESEL (GASOLEO B)

CHARACTERISTICS	UNITS	LIMITS (1)	TEST METHODS (2)		
			EN STANDARDS (3)	UNE STANDARDS (3)	ASTM STANDARDS (3)
Cetane number (4)		minimum 49,0	EN ISO 5165 EN 15195	UNE-EN ISO 5165 UNE-EN 15195	D 613
Cetane Index (4)		minimum 46,0	EN ISO 4264	UNE-EN ISO 4264	D 4737
Density at 15°C	kg/m <sup>3</sup>	820 to 880	EN ISO 3675 EN ISO 12185	UNE-EN ISO 3675 UNE-EN ISO 12185	D 4052 D 1298
Sulphur content	mg/kg	maximum 10 (5)	EN ISO 20846 EN ISO 20884	UNE-EN ISO 20846 UNE-EN ISO 20884	
Distillation (6):			EN ISO 3405	UNE-EN ISO 3405	D 86
65 % V/V collected	°C	minimum 250			
85 % V/V collected	°C	maximum 350			
95 % V/V collected	°C	maximum 370			
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	2,0 to 4,5	EN ISO 3104	UNE-EN ISO 3104	D 445
Flash point	°C	minimum 60	EN ISO 2719	UNE-EN ISO 2719	D 93
Cold filter plugging point (POFF):			EN 116	UNE-EN 116	
Winter (1 October to 31 March) (7)	°C	maximum -10			
Summer (1 April to 30 September) (7)	°C	maximum 0			
Cloud point:			EN 23015	UNE-EN 23015	D 2500 D 5772
Winter (1 October to 31 March) (7)	°C	maximum 0			
Summer (1 April to 30 September) (7)	°C	maximum +6			
Carbon residue (on 10% distillation residue)	% m/m	maximum 0,30	EN ISO 10370	UNE-EN ISO 10370	D 4530
Lubricity, corrected wear scar diameter (corrected WSD 1,4) at 60°C	µm	maximum 460	EN ISO 12156-1	UNE-EN ISO 12156-1	
Water content	mg/kg	maximum 200	EN ISO 12937	UNE-EN ISO 12937	
Total contamination (Solid particles)	mg/kg	maximum 24	EN 12662	UNE-EN 12662	
Ash content	% m/m	maximum 0,01	EN ISO 6245	UNE-EN ISO 6245	D 482
Corrosion to copper (3h at 50°C)	ASTM scale	maximum 1b	EN ISO 2160	UNE-EN ISO 2160	D 130
Oxidation stability	g/m <sup>3</sup>	maximum 25	EN ISO 12205	UNE-EN ISO 12205	D 2274
Transparency and gloss		complies			D 4176
FAME content	% V/V	(8)	EN 14078	UNE-EN 14078	
Colour		(9)	Visual		

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SEE NOTES IN THE NEXT PAGE	

## NOTES:

- (1) All test methods referred to in this document include a precision statement. In case of dispute, the procedure for resolving the dispute and interpretation of the results based on test method precision, described in EN ISO 4259, shall be used.
- (2) Other technically equivalent test methods are acceptable under prior approval by CLH. In case of dispute, the criteria about reference methods and the interpretation of results established in RD 1088/2010 shall be followed.
- (3) The test methods to be applied are those corresponding to the latest published version.
- (4) If the cetane index is lower than 49, diesel oil must contain duly approved ignition enhancers in a proportion that is sufficient for achieving a minimum cetane number of 49.
- (5) The sulphur limit of 10 mg/kg applies in the CLH system inlet; en according to RD 1088/2010 maximum sulphur content for delivered Diesel Oil B is 20 mg/kg.
- (6) Besides the specified values, the values of 10%, 50% and 90% collected, which are necessary for calculation of the cetane index, must be reported on.
- (7) The dates indicated are the dates established officially for diesel oil to be available at the retail points with the quality of the new season. The advance period within which diesel oil must enter the CLH system for achieving this objective is defined in the service provision contract.
- (8) The blending of FAME shall not be allowed. The maximum FAME content present by contamination during the production process must be less than 0.1 % V/V.
- (9) This fuel does not incorporate tracers or colourants. It shall be clear, clean, transparent and glossy and shall have a maximum (ASTM D 1500/ASTM D 6045) colour of 2. In the CLH system, the colorants and tracers shall be incorporated as established by Order PRE/1724/2002, of 5 July, which approves the tracers and markers that shall be added to some hydrocarbons in order to apply reduced rates established by Law 38/1992, of 28 December, of Special Taxes, modified by Order PRE/3293/2004, of 22 October.

**IF THERE IS A CHANGE IN THE OFFICIAL SPECIFICATIONS IN FORCE IN SPAIN, THIS TABLE WILL BE REVISED TO SUIT THE NEW SITUATION.**