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SUPPLEMENTARY MATERIAL TO  
**Extractive purification of hydro-treated gas oil with  
N-methylpyrrolidone**

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TABLE S-I. Properties of the hydro-treated gas oil from the Kstovo Oil Refinery

Properties of gas oil	Method	Result
Density at 15 °C	ASTM D1298	0.8288
Flash point, °C	ASTM D93	68
Pour point, °C	ASTM D97	–15
Colour test	ASTM D1500	< 1
Total sulphur content, wt. ppm	ASTM D4294	174
Viscosity at 50 °C, cSt	ASTM D445	2.7
Cetane index	ASTM D976	54
Refractive index, $n_D^{20}$	ASTM D1218	1.4687
Distillation,		
Initial boiling point, °C	ASTM D86	184
10 % Distillation, °C	ASTM D86	207
20 % Distillation, °C	ASTM D86	221
50 % Distillation, °C	ASTM D86	264
90 % Distillation, °C	ASTM D86	329
95 % Distillation, °C	ASTM D86	352
Final boiling point, °C	ASTM D86	369
Residue, vol. %	ASTM D86	1
Loss, vol. %	ASTM D86	1
Recovery, vol. %	ASTM D86	98

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