

Ivan Madar

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Predmet: Results of heavy oil processing

Prílohy: Blowdec-test_analys_200809_v1_.pdf; Blowdec-test_analys_200809_(oF).pdf

Gents

You can find attached.

Best regards

Ivan

_____ Informacia od ESET NOD32 Antivirus, verzia databazy 3988 (20090404)

_____ Tuto spravu preveril ESET NOD32 Antivirus.

<http://www.eset.sk>

Summary of the products properties

Properties of the raw Heavy Oil and liquid hydrocarbons recovered in process BLOWDEC®

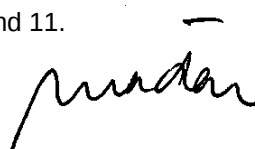
		Raw Albania Heavy Oil	Syn-crude T1 (Test 1) 2008/09/09	Syn-crude T3 (Test 3) 2008/09/11
Parameter	Unit	Value	Value	Value
Density at 20°C	kg/m ³	1.010,5	931	937
API gravity at 15°C	~	8,1	21,0	20,5
Viscosity at 20°C	mm ² /s (cSt)	–	18,5	11,4
Viscosity at 40°C	mm ² /s (cSt)	2412	8,7	5,9
Viscosity at 100°C	mm ² /s (cSt)	110	–	–
SimDis Distillation test	~	~	~	~
Initial boiling point	°C	–	55	67
5 % mass recovered	°C	–	117	119
10 % mass recovered	°C	–	145	143
20 % mass recovered	°C	–	195	193
30 % mass recovered	°C	–	238	232
40 % mass recovered	°C	–	276	267
50 % mass recovered	°C	–	314	302
60 % mass recovered	°C	–	350	336
70 % mass recovered	°C	–	390	372
80 % mass recovered	°C	–	432	414
90 % mass recovered	°C	–	479	462
95 % mass recovered	°C	–	509	495
End of distillation / recovered	°C	–	>538	>538
Bromine number	g Br /100 g	–	29.1	32.3
TAN	mg KOH/g	–	0.48	0.12
Vanadium	mg/kg	368	16	6
Nickel	mg/kg	72	2.6	2,2
Sulphur content	% wt.	5,90	4.30	4,02
Pour point	°C	–	–43	<-60
CCR Conradson C. Residue	% wt.	–	2,88	1,99
Color	~	black	black brown	black brown

Notes:

¹ –

Date of Tests run:
Test & record performed by:

2008, September 9. and 11.
Ivan Madar



Summary of the products properties

Properties of the raw Heavy Oil and liquid hydrocarbons recovered in process BLOWDEC®

		Raw Albania Heavy Oil	Syn-crude T1 (Test 1) 2008/09/09	Syn-crude T3 (Test 3) 2008/09/11
Parameter	Unit	Value	Value	Value
Density at 68°F (20 °C)	kg/m ³	1.010,5	931	937
API gravity at 60°F (15 °C)	~	8,1	21,0	20,5
Viscosity at 68°F (20 °C)	mm ² /s (cSt)	–	18,5	11,4
Viscosity at 104°F (40 °C)	mm ² /s (cSt)	2412	8,7	5,9
Viscosity at 212°F (100 °C)	mm ² /s (cSt)	110	–	–
SimDis Distillation test	~	~	~	~
Initial boiling point	°F	–	130	153
5 % mass recovered	°F	–	243	247
10 % mass recovered	°F	–	293	289
20 % mass recovered	°F	–	383	379
30 % mass recovered	°F	–	460	449
40 % mass recovered	°F	–	528	513
50 % mass recovered	°F	–	597	575
60 % mass recovered	°F	–	663	638
70 % mass recovered	°F	–	733	702
80 % mass recovered	°F	–	809	777
90 % mass recovered	°F	–	893	864
95 % mass recovered	°F	–	949	923
End of distillation / recovered	°F	–	>1000	>1000
Bromine number	g Br /100 g	–	29.1	32.3
TAN	mg KOH/g	–	0.48	0.12
Vanadium	mg/kg	368	16	6
Nickel	mg/kg	72	2.6	2,2
Sulphur content	% wt.	5,90	4.30	4,02
Pour point	°C	–	–43	<-60
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