



RAPORT NR. PL/41/13300357-0058

Towar deklarowany jako	LNG
Zleceniodawca	Barter S.A. Ul. Legionowa 28 15-281 Białystok
Miejsce pobrania próbki	TEREN UC BIAŁYSTOK, UL. OCTOWA 10, BIAŁYSTOK
Data pobrania próbki	02.08.2013
Data wykonania analiz	05.08.2013
Metoda badań	procedura CLPB nr PB PFC/ch1, wyd. 6 z 01.04.2011 – GC PFC 1/0
Ciśnienie gazu	7,0 bar
Temperatura otoczenia	(24,6÷25,1)°C
Nr. dostawy	1
Numer referencyjny SGS	41/13300357/1

Małaszewicze 2013-08-05
Numer referencyjny.: 41/13300357-1

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SGS Polska Sp. z o.o.

Specjalista ds. Obsługi Klienta
Marta Pyzik-Pszczota

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RAPORT Z INSPEKCJI

Na zlecenie firmy BARTER S.A. przeprowadzono próbobranie i analizę ww. towaru.

Próbkę pobrano z autocysterny nr WBR89EJ/WBR33TG., z zaworu V11

Próbkę zaplombowano plombą UC- E103.

Próbka została dostarczona do laboratorium z plombą w stanie nienaruszonym.

Wyniki analizy wg sprawozdania z badań nr 247/B/PFC/2013 z dnia 05/08/2013

Wykryty składnik	Stężenie [%mol]	Niepewność (Usa) [% mol]	Wyniki obliczeń wg PN-EN ISO 6976:2008
metan	99,278	0,006	ciepło spalania 39,60 (±0,01)
etan	0,088	0,001	[MJ/m ³]
propan	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
izo-butan	nie stwierdzono	-	wartość opałowa 35,69 (±0,01)
n-butan	nie stwierdzono	-	[MJ/m ³]
neo-pentan	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
izo-pentan	nie stwierdzono	-	górną liczbą Wobbego 53,00 (±0,01)
n-pentan	nie stwierdzono	-	[MJ/m ³]
grupa C6	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
grupa C7	nie stwierdzono	-	dolną liczbą Wobbego 47,77 (±0,01)
grupa C8	nie stwierdzono	-	[MJ/m ³]
grupa C9	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
azot	0,577	0,005	gęstość normalna 0,7218 (±0,0001)
dutlenek węgla	0,057	0,001	kg/m ³
tlen	nie stwierdzono	-	(0°C/101,325 kPa)
			gęstość względna 0,5583 (±0,0001)

Gęstość LNG" 422,938 kg/m³, dla temp. -160°C

Hs LNG: 55,01 MJ/kg dla temp. 0°C

Hs LNG: 55,86 MJ/kg dla temp. 25°C

Próbki zostały pobrane przez i przeanalizowane przez naszego podwykonawcę: PGNiG SA, Warszawa
Certyfikat akredytacji laboratorium: AB 278.

Uwaga: Pobrano fazę gazową z powodu braku możliwości poboru bezpośredniego fazy ciekłej na cysternie.

Signed and dated in
Malaszewicze, 05.08.2013

For and on behalf of
SGS Polska Sp. z o.o.
SGS Polska Sp. z o.o.

Specjalista ds. Obsługi Klienta
Marta Pyzik-Pszczola

These findings are reported herein for convenience only and SGS has no liability for the subcontracted results, which remain with PGNiG SA, ul. Marcina Kasprzaka 25B in Warszawa.

The Company's involvement has been limited to implementing the Client's instructions, which required the Company to submit the sample(s) for analysis to a third-party laboratory. The Company is not responsible for those analytical results, the responsibility of which remains with the laboratory that produced those results.

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