Intertek Caleb Brett msh Deniz Survey Group

ITS. Caleb Brett/Deniz Survey S.A.

LABORATORY REPORT NO: 21863/17 - IST/LAB

ANALYTICAL REPORT

AYGAZ KARGO NO.	: N/A
AYGAZ NO	: N/A
VESSEL	: LPG/C " KULELİ "
CUSTOMER	: AYGAZ A.Ş.
SAMPLE DATE / BL QUANTITY	: 26.08.2017
TERMINAL	: AYGAZ TERMINAL / YARIMCA
SAMPLE OF	: LPG MIXTURE-AUTOGAS SHORE TK.304 & SHIPS TK.1 COMPOSITE
DRAWN BY	: ITS CALEB BRETT/DENİZ SURVEY A.Ş.
PACKING	: 2 KG LPG CYLINDER
SEALS	: ITSCB/DS
SAMPLE COLLECTED	: 26.08.2017
ORIGIN OF RESULTS	: ITS CALEB BRETT/DENİZ SURVEY A.Ş. ISTANBUL LABORATORY

TEST	METHOD		UNIT	RESULT
MOTOR OCTANE NUMBER	EN 589+A1			94,4
DENSITY AT 15 DEG C	ASTM D.1657		KG/LT	0,5310
H2S	ASTM D.2420		-	NEGATIVE
DIENE CONTENT	ASTM D.2163		MOL %	0,00
TOTAL SULPHUR	ASTM D.6667		PPM-WT	21,4
COPPER STRIP CORROSION	ASTM D.1838		NO	1
REID VAPOR PRESSURE AT 40 DEG C	ASTM D.1267		KPA	1020
REID VAPOR PRESSURE AT (-5) DEG C	ASTM D.1267		KPA	230
DRYNESS	ASTM D.2713		-	PASS
ODOUR	EN 589+A1 EK A		--	PASS
GROSS CALORIFIC VALUE, CALC.	ASTM D.3588		KCAL/KG	11964
NET CALORIFIC VALUE, CALC.	ASTM D.3588		KCAL/KG	11018
COMPOSITION	ASTM D.2163 / GC			
METHANE	WT %	0,00	MOL %	0,00
ETHANE	WT %	0,56	MOL %	0,89
PROPANE	WT %	64,29	MOL %	70,05
PROPYLENE	WT %	0,07	MOL %	0,08
ISO-BUTANE	WT %	12,90	MOL %	10,67
N-BUTANE	WT %	21,90	MOL %	18,11
TRANS-2-BUTENE	WT %	0,02	MOL %	0,02
1-BUTENE	WT %	0,02	MOL %	0,02
ISO-BUTENE	WT %	0,00	MOL %	0,00
CIS-2-BUTENE	WT %	0,01	MOL %	0,01
ISO-PENTANE	WT %	0,21	MOL %	0,14
N-PENTANE	WT %	0,02	MOL %	0,01
1,3-BUTADIENE	WT %	0,00	MOL %	0,00
TOTAL OLEFINS	WT %	0,12	MOL %	0,13

ITS CALEB BRETT/DENİZ SURVEY A.S

NAME OF ANALYSING CHEMIST & COMPANY: ISTANBUL LABORATORY

SIGNED: ISTANBUL, 27.08.2017

Intertek – Cargo & Analytical Assessment
Agri&Mineral Services
ITS Caleb Brett Deniz Survey SA
A Joint venture of Intertek and Deniz Survey Group
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