

**LIST OF OIL AND NATURAL GAS LIQUID CONTRACTS TRANSITIONING TO
ICE FUTURES U.S.**

Commodity Code	Logical Code	Product Description	Contract Type
UL7	UL7	67-grade USGC ULSD (Platts) vs Heating Oil 1st Line Future	Future
NH2	NH2	Argus 62-grade NYH ULSD vs Heating Oil 1st Line Future	Future
NH7	NH7	Argus 67-grade NYH ULSD vs Heating Oil 1st Line Future	Future
BAK	BAK	Argus Bakken (Clearbrook) Crude Oil Future	Future
ARH	ARH	Argus LLS Average Price Option	Option
ARH	ARH	Argus LLS Future	Future
ARI	ARI	Argus LLS vs Brent 1st Line Future	Future
ARJ	ARJ	Argus LLS vs Dated Brent (Platts) Future	Future
ARK	ARK	Argus LLS vs WTI 1st Line Average Price Option	Option
180-18U	ARP	Argus LLS vs WTI 1st Line Balmo Future	Future
ARK	ARK	Argus LLS vs WTI 1st Line Future	Future
ARL	ARL	Argus LLS vs WTI Trade Month Average Price Option	Option
ARQ	ARQ	Argus LLS vs WTI Trade Month Balmo Future	Future
ARL	ARL	Argus LLS vs WTI Trade Month Future	Future
ARM	ARM	Argus Mars Future	Future
ARN	ARN	Argus Mars vs Brent 1st Line Future	Future
ARO	ARO	Argus Mars vs WTI 1st Line Average Price Option	Option
ART	ART	Argus Mars vs WTI 1st Line Balmo Future	Future
ARO	ARO	Argus Mars vs WTI 1st Line Future	Future
ARW	ARW	Argus Mars vs WTI Trade Month Average Price Option	Option
ARS	ARS	Argus Mars vs WTI Trade Month Balmo Future	Future
ARW	ARW	Argus Mars vs WTI Trade Month Future	Future
03G-04A	JCI	Argus NYH Jet vs Heating Oil 1st Line Balmo Future	Future
JCH	JCH	Argus NYH Jet vs Heating Oil 1st Line Future	Future
TAB	TAB	Argus Sour Crude Index (ASCI) Diff Calendar Future	Future
TOB	TOB	Argus Sour Crude Index (ASCI) Diff Trade Month Future	Future
AIO	AIO	Argus ULSD NYH Buckeye Pipeline vs Heating Oil 1st Line Future	Future
AIP	AIP	Argus ULSD NYH Colonial Offline vs Heating Oil 1st line Future	Future
CSH	CSH	Argus WCS (Cushing) Crude Oil Trade Month Future	Future
AIM	AIM	Argus WTI CMA Trade Month Future	Future
ACT	ACT	Argus WTI Cushing Trade Month Future	Future
MSN	MSN	Argus WTI Houston vs Argus WTI Midland Trade Month Future	Future
AIL	AIL	Argus WTI Houston vs WTI 1st Line Average Price Option	Option
AIK	AIK	Argus WTI Houston vs WTI 1st Line Balmo Future	Future
AIL	AIL	Argus WTI Houston vs WTI 1st Line Future	Future
ACL	ACL	Argus WTI Houston vs WTI Trade Month Balmo Future	Future
ACM	ACM	Argus WTI Houston vs WTI Trade Month Future	Future
MST	MST	Argus WTI Midland vs Argus WTS Trade Month Future	Future

Commodity Code	Logical Code	Product Description	Contract Type
MLT	MLT	Argus WTI Midland vs WTI 1st Line Average Price Option	Option
MLU	MLU	Argus WTI Midland vs WTI 1st Line Balmo Future	Future
MLT	MLT	Argus WTI Midland vs WTI 1st Line Future	Future
MLS	MLS	Argus WTI Midland vs WTI Trade Month Balmo Future	Future
MSV	MSV	Argus WTI Midland vs WTI Trade Month Future	Future
AFH	AFH	Argus WTS vs WTI 1st Line Average Price Option	Option
AFI	AFI	Argus WTS vs WTI 1st Line Balmo Future	Future
AFH	AFH	Argus WTS vs WTI 1st Line Future	Future
AVS	AVS	Argus WTS vs WTI Trade Month Balmo Future	Future
AVT	AVT	Argus WTS vs WTI Trade Month Future	Future
ETC	ETC	Chicago Ethanol (Platts) Future	Future
ABL	ABL	Argus ANS vs Brent 1st Line Future	Future
DFL	DFL	Daily Gulf Coast Jet Fuel (Platts) vs Heating Oil 1st Line Future	Future
DFK	DFK	Daily Gulf Coast ULSD (Platts) vs Heating Oil 1st Line Future	Future
DWO	DWO	Daily WTI 1-Month Calendar Spread Future	Future
DWO	DWO	Daily WTI 1-Month Calendar Spread Option	Option
DFF	DFF	Diesel 10ppm FOB ARA Barges (Platts) vs Heating Oil 1st Line Future	Future
EHL	EHL	EU-Style Heating Oil vs Low Sulphur Gasoil Future	Future
EHL	EHL	EU-Style Heating Oil vs Low Sulphur Gasoil Option	Option
WUL	WBS	EU-Style WTI Future	Future
WUL	WBS	EU-Style WTI Option	Option
14X	14X	New York 3.0% Fuel Oil (Platts) Future	Future
GOK	GOK	Fuel Oil 380 CST Singapore (Platts) vs USGC HSFO (Platts) Future (in Bbls)	Future
1Y4-1YY	GPR	Group 3 Sub-Octane Gasoline (Platts) vs RBOB Gasoline 1st Line Balmo Future	Future
GDL	GDL	Group 3 Sub-Octane Gasoline (Platts) vs RBOB Gasoline 1st Line Future	Future
DCS	DCS	Group 3 ULSD (OPIS) vs Heating Oil 1st Line Future	Future
GUH	GUH	Group 3 ULSD (Platts) vs Heating Oil 1st Line Future	Future
G3V	G3V	Group 3 V-Grade Sub-Octane Gasoline (OPIS) vs RBOB Gasoline 1st Line Future	Future
056-060	GDN	Gulf Coast CBOB 87 Gasoline Prompt Pipeline (Platts) vs RBOB Gasoline 1st Line Balmo Future	Future
GDM	GDM	Gulf Coast CBOB 87 Gasoline Prompt Pipeline (Platts) vs RBOB Gasoline 1st Line Future	Future
JCF	JCF	Gulf Coast Jet Fuel (Platts) Average Price Option	Option
OZ0-OZU	JCG	Gulf Coast Jet Fuel (Platts) Balmo Future	Future
GCJ	GCJ	Gulf Coast Jet Fuel (Platts) Mini Future	Future
04B-055	JHP	Gulf Coast Jet Fuel (Platts) vs Heating Oil 1st Line Balmo Future	Future

Commodity Code	Logical Code	Product Description	Contract Type
JCF	JCF	Gulf Coast Jet Fuel (Platts) Future	Future
GUB	GUB	Gulf Coast Jet Fuel (Platts) vs Brent 1st Line Future	Future
JHO	JHO	Gulf Coast Jet Fuel (Platts) vs Heating Oil 1st Line Future	Future
JCU	JCU	Gulf Coast ULSD (Platts) vs Gulf Coast Jet Fuel (Platts) Future	Future
MXQ-- MYU	GCH	Gulf Coast ULSD (Platts) vs Heating Oil 1st Line Balmo Future	Future
GUU	GUU	Gulf Coast ULSD (Platts) Future	Future
GUV	GUV	Gulf Coast ULSD (Platts) vs Brent 1st Line Future	Future
GOH	GOH	Gulf Coast ULSD (Platts) vs Heating Oil 1st Line Future	Future
GUX	GUX	Gulf Coast ULSD (Platts) vs Low Sulphur Gasoil 1st Line Future	Future
GUW	GUW	Gulf Coast ULSD (Platts) vs WTI 1st Line Future	Future
000-00U	UMM	Gulf Coast Unl 87 Gasoline Prompt Pipeline (Platts) vs RBOB Gasoline 1st Line Balmo Future	Future
UM1	UM1	Gulf Coast Unl 87 Gasoline Prompt Pipeline (Platts) vs RBOB Gasoline 1st Line Future	Future
HOF	UHO	Heating Oil 1st Line Future	Future
HOM	HOM	Heating Oil 1st Line Mini Future	Future
HBT	HBT	Heating Oil 1st Line vs Brent 1st Line Future (in Bbls)	Future
1IM-1JG	UL9	Heating Oil 1st Line vs Low Sulphur Gasoil 1st Line Balmo Future (in Bbls)	Future
ULM	ULM	Heating Oil 1st Line vs Low Sulphur Gasoil 1st Line Future (in Bbls)	Future
ULL	ULL	Heating Oil 1st Line vs Low Sulphur Gasoil 1st Line Future (in MTs)	Future
HBW	HBW	Heating Oil 1st Line vs WTI 1st Line Future	Future
HOF	UHO	Heating Oil Average Price Option	Option
TDE	TDE	Daily EU-Style WTI Option	Option
TDE	TDE	Daily EU-Style WTI Future	Future
01Q-02K	LA5	LA Jet Fuel (Platts) vs Heating Oil 1st Line Balmo Future	Future
LA4	LA4	LA Jet Fuel (Platts) vs Heating Oil 1st Line Future	Future
GHK-GIO	FOE	New York 1% Fuel Oil (Platts) vs USGC HSFO (Platts) Balmo Future	Future
FOD	FOD	New York 1% Fuel Oil (Platts) vs USGC HSFO (Platts) Future	Future
FRA-FSE	FOX	New York 1% Fuel Oil (Platts) Balmo Future	Future
FOW	FOW	New York 1% Fuel Oil (Platts) Future	Future
GGF-GHJ	FOI	New York 1% Fuel Oil (Platts) vs Fuel Oil 1% FOB NWE Cargoes (Platts) Balmo Future	Future
FOH	FOH	New York 1% Fuel Oil (Platts) vs Fuel Oil 1% FOB NWE Cargoes (Platts) Future	Future
NFB	NFB	New York 1% Fuel Oil (Platts) vs Brent 1st Line Future	Future
GIP-GJT	FOL	New York 1% Fuel Oil (Platts) vs WTI 1st Line Balmo Future	Future
FOK	FOK	New York 1% Fuel Oil (Platts) vs WTI 1st Line Future	Future

Commodity Code	Logical Code	Product Description	Contract Type
14W	14W	New York 3.0% Fuel Oil (Platts) vs USGC HSFO (Platts) Future	Future
ETN	ETN	New York Ethanol (Platts) Future	Future
HOC	HOC	New York Harbour ULSD 1-Month Calendar Spread Future	Future
HOC	HOC	New York Harbour ULSD 1-Month Calendar Spread Option	Option
RCM	RCM	RBOB Gasoline 1-Month Calendar Spread Future	Future
RCM	RCM	RBOB Gasoline 1-Month Calendar Spread Option	Option
OX0-0XU	RSE	RBOB Gasoline 1st Line Balmo Future	Future
RBS	UHU	RBOB Gasoline 1st Line Future	Future
RBM	RBM	RBOB Gasoline 1st Line Mini Future	Future
140-14U	GDR	RBOB Gasoline 1st Line vs Argus Eurobob Oxy FOB Rotterdam Barges Balmo Mini Future	Future
GDO	GDO	RBOB Gasoline 1st Line vs Argus Eurobob Oxy FOB Rotterdam Barges Future	Future
GDQ	GDQ	RBOB Gasoline 1st Line vs Argus Eurobob Oxy FOB Rotterdam Barges Mini Future	Future
1F6-1G0	GDT	RBOB Gasoline 1st Line vs Argus Eurobob Oxy FOB Rotterdam Barges Balmo Future	Future
RBR	RBR	RBOB Gasoline 1st Line vs Brent 1st Line Future	Future
RBW	RBW	RBOB Gasoline 1st Line vs WTI 1st Line Future	Future
RBS	UHU	RBOB Gasoline Average Price Option	Option
1EB-1F5	RBQ	RBOB vs Brent 1st Line Balmo Future (in Bbls)	Future
TMS	TMS	TMX SYN 1a Index Future	Future
SYN	SYN	TMX SYN 1b Index Future	Future
TMF	TMF	TMX C5 1a Index Future	Future
TMC	TMC	TMX C5 1b Index Future	Future
TML	TML	TMX LSB 1a Index Future	Future
TMR	TMR	TMX SW 1a Index Future	Future
1TT-1UN	TMZ	TMX SW 1a Index Balmo Future	Future
TMU	TMU	TMX UHC 1a Index Future	Future
UHB	UHB	TMX UHC 1b Index Future	Future
TMW	TMW	TMX WCS 1a Index Average Price Option	Option
TMW	TMW	TMX WCS 1a Index Future	Future
1SY-1TS	TMY	TMX WCS 1a Index Balmo Future	Future
VYH-VZL	TDY	TMX WCS 1b Index Balmo Future	Future
TDX	TDX	TMX WCS 1b Index Future	Future
TMN	TMN	ULSD 10ppm CIF MED Cargoes (Platts) vs Heating Oil 1st Line Future	Future
TNN	TNN	ULSD 10ppm CIF NWE Cargoes (Platts) vs Heating Oil 1st Line Future	Future
UHL	UHL	ULSD NYH Colonial Offline (Platts) vs Heating Oil 1st Line Future	Future
GUE	GUE	Gulf Coast Export ULSD Cargoes (Platts) Future	Future

Commodity Code	Logical Code	Product Description	Contract Type
RBO	RBO	USGC HSFO (Platts) Average Price Option	Option
FPA-FQE	RBP	USGC HSFO (Platts) Balmo Future	Future
RBO	RBO	USGC HSFO (Platts) Future	Future
1JH-1KB	GCT	USGC HSFO (Platts) vs Brent 1st Line Balmo Future	Future
GCS	GCS	USGC HSFO (Platts) vs Brent 1st Line Future	Future
GJU-GKY	GOD	USGC HSFO (Platts) vs Fuel Oil 3.5% FOB Rotterdam Barges (Platts) Balmo Future (in Bbls)	Future
GOE	GOE	USGC HSFO (Platts) vs Fuel Oil 3.5% FOB Rotterdam Barges (Platts) Future (in Bbls)	Future
NVV	NVV	USGC HSFO (Platts) vs Fuel Oil 3.5% FOB Rotterdam Barges (Platts) Future (in MTs)	Future
GUF	GUF	USGC HSFO (Platts) vs WTI 1st Line Future	Future
TIZ	TIZ	WTI 12-Month Calendar Spread Future	Future
TIZ	TIZ	WTI 12-Month Calendar Spread Option	Option
TIA	TIA	WTI 1-Month Calendar Spread Future	Future
TIA	TIA	WTI 1-Month Calendar Spread Option	Option
02L-03F	WBT	WTI 1st Line Balmo Future	Future
R	WBS	WTI 1st Line Future	Future
RMM	RMM	WTI 1st Line Mini Future	Future
B20-B2U	BTE	WTI 1st Line vs Brent 1st Line Balmo Future	Future
BTD	BTD	WTI 1st Line vs Brent 1st Line Future	Future
02L-03F	WBT	WTI Average Price Balmo Option	Option
R	WBS	WTI Average Price Option	Option
WTB	WBS	WTI Bullet Future	Future
TIB	TIB	WTI vs Brent Bullet Future	Future
TIB	TIB	WTI vs Brent Spread Option	Option
ECC	ECC	Ethane in E/P Mix, OPIS Conway In-Well Average Price Option	Option
ETE	ETE	Ethane, OPIS Mt. Belvieu Non-TET Average Price Option	Option
NGE	NGE	Natural Gasoline, OPIS Mt. Belvieu Non-TET Average Price Option	Option
NBI	NBI	Normal Butane, OPIS Mt. Belvieu Non-TET Average Price Option	Option
PRC	PRC	Propane, OPIS Conway In-Well Average Price Option	Option
PRL	PRL	Propane, OPIS Mt. Belvieu TET Average Price Option	Option
BUC	BUC	Benzene, PCW US Contract Price Future	Future
BUI	BUI	Benzene, PCW US Index Fixed Price Future	Future
ABR	ABR	Butane, Argus CIF ARA Future	Future
1ON-1PH	BUN	Butane, Argus CIF ARA Balmo Future	Future
ABM	ABM	Butane, Argus CIF ARA Mini Future	Future
1PI-1QC	BUR	Butane, Argus Far East Index (AFEI) Balmo Future	Future
ABF	ABF	Butane, Argus Far East Index (AFEI) Future	Future
BUQ	BUQ	Butane, Argus Far East Index (AFEI) Mini Future	Future

Commodity Code	Logical Code	Product Description	Contract Type
ABS	ABS	Butane, Argus Saudi CP Future	Future
BUS	ABS	Butane, Argus Saudi CP Mini Future	Future
ABO	ABO	Butane, Argus Sonatrach CP Future	Future
ECC	ECC	Ethane in E/P Mix, OPIS Conway In-Well Future	Future
LPE-LQI	ECD	Ethane in E/P Mix, OPIS Conway In-Well Balmo Future	Future
ECB	ECB	Ethane in E/P Mix, OPIS Mt. Belvieu Non-TET Future	Future
LNZ-LPD	ECA	Ethane in E/P Mix, OPIS Mt. Belvieu Non-TET Balmo Future	Future
ETD	ETD	Ethane, OPIS Mt. Belvieu Other Non-TET Future	Future
ETE	ETE	Ethane, OPIS Mt. Belvieu Non-TET Future	Future
EEA-EFE	ETF	Ethane, OPIS Mt. Belvieu Non-TET Balmo Future	Future
ISC	ISC	Isobutane, OPIS Conway In-Well Future	Future
LWH-LXL	ISD	Isobutane, OPIS Conway In-Well Balmo Future	Future
ISO	ISO	Isobutane, OPIS Mt. Belvieu Non-TET Future	Future
LVC-LWG	ISP	Isobutane, OPIS Mt. Belvieu Non-TET Balmo Future	Future
ISL	ISL	Isobutane, OPIS Mt. Belvieu TET Future	Future
ZHF-ZIJ	ISQ	Isobutane, OPIS Mt. Belvieu TET Balmo Future	Future
M00-M0U	ETG	Ethylene, PCW Mont Belvieu Balmo Future	Future
ETH	ETH	Ethylene, PCW Mont Belvieu Future	Future
NGC	NGC	Natural Gasoline, OPIS Conway In-Well Future	Future
LJF-LKJ	NGG	Natural Gasoline, OPIS Conway In-Well Balmo Future	Future
NGW	NGW	Natural Gasoline, OPIS Mt. Belvieu Non-TET vs WTI 1st Line Future	Future
NGE	NGE	Natural Gasoline, OPIS Mt. Belvieu Non-TET Future	Future
LGA-LHE	NGF	Natural Gasoline, OPIS Mt. Belvieu Non-TET Balmo Future	Future
NBC	NBC	Natural Gasoline, OPIS Mt. Belvieu Other Non-TET Future	Future
NGL	NGL	Natural Gasoline, OPIS Mt. Belvieu TET Future	Future
LSS-LTW	NGK	Natural Gasoline, OPIS Mt. Belvieu TET Balmo Future	Future
NGB	NGB	NGL Basket, OPIS Mt. Belvieu Non-TET Future	Future
NBE	NBE	Normal Butane, OPIS Mt. Belvieu Other Non-TET Future	Future
IBC	IBC	Normal Butane, OPIS Conway In-Well Future	Future
LKK-LLO	IBD	Normal Butane, OPIS Conway In-Well Balmo Future	Future
NBI	NBI	Normal Butane, OPIS Mt. Belvieu Non-TET Future	Future
LEA-LFE	NBJ	Normal Butane, OPIS Mt. Belvieu Non-TET Balmo Future	Future
NBR	NBR	Normal Butane, OPIS Mt. Belvieu TET Future	Future
LRN-LSR	NBS	Normal Butane, OPIS Mt. Belvieu TET Balmo Future	Future
P10-P1U	PPN	Polymer Grade Propylene (PGP), PCW Mont Belvieu Balmo Future	Future
PPL	PPL	Polymer Grade Propylene (PGP), PCW Mont Belvieu Future	Future
APC	APC	Propane, Argus CIF ARA Average Price Option	Option
1HR-1IL	ABG	Propane, Argus CIF ARA vs Naphtha CIF NWE Cargoes (Platts) Balmo Future	Future

Commodity Code	Logical Code	Product Description	Contract Type
APN	APN	Propane, Argus CIF ARA vs Naphtha CIF NWE Cargoes (Platts) Future	Future
APC	APC	Propane, Argus CIF ARA Future	Future
LMU-LNY	APD	Propane, Argus CIF ARA Balmo Future	Future
AFM	AFM	Propane, Argus CIF ARA Mini Future	Future
AFE	AFE	Propane, Argus Far East Index (AFEI) Average Price Option	Option
AFL	AFL	Propane, Argus Far East Index (AFEI) Mini Future	Future
1GW-1HQ	ABK	Propane, Argus Far East Index (AFEI) vs Naphtha C+F Japan Cargoes (Platts) Balmo Future	Future
ARR	ARR	Propane, Argus Far East Index (AFEI) vs Naphtha C+F Japan Cargoes (Platts) Future	Future
EGD	EGD	Propane, Argus Far East Index (AFEI) vs Propane, Argus CIF ARA Future	Future
VRD-VSH	EGE	Propane, Argus Far East Index (AFEI) vs Propane, Argus CIF ARA Balmo Future	Future
AFE	AFE	Propane, Argus Far East Index (AFEI) Future	Future
LLP-LMT	AFF	Propane, Argus Far East Index (AFEI) Balmo Future	Future
SCP	SCP	Propane, Argus Saudi CP Future	Future
AFS	AFS	Propane, Argus Sonatrach CP Future	Future
TOT	TOT	Propane, OPIS CIF ARA ToT Cargoes Future	Future
PRC	PRC	Propane, OPIS Conway In-Well Future	Future
LIA-LJE	PRD	Propane, OPIS Conway In-Well Balmo Future	Future
PRH	PRH	Propane, OPIS Hattiesburg Future	Future
CEJ	CEJ	Propane, OPIS Mt. Belvieu Non-TET vs Propane, Argus CIF ARA Future	Future
CEZ	CEZ	Propane, OPIS Mt. Belvieu Non-TET vs Propane, Argus Far East Index (AFEI) Future	Future
PRN	PRN	Propane, OPIS Mt. Belvieu Non-TET Future	Future
LAA-LBE	PRO	Propane, OPIS Mt. Belvieu Non-TET Balmo Future	Future
1YZ-1ZT	PBP	Propane, OPIS Mt. Belvieu Other Non-TET Balmo Future	Future
PBO	PBO	Propane, OPIS Mt. Belvieu Other Non-TET Future	Future
CEK	CEK	Propane, OPIS Mt. Belvieu TET vs Propane, Argus CIF ARA Future	Future
CEY	CEY	Propane, OPIS Mt. Belvieu TET vs Propane, Argus Far East Index (AFEI) Future	Future
PRL	PRL	Propane, OPIS Mt. Belvieu TET Future	Future
LCA-LDE	PRM	Propane, OPIS Mt. Belvieu TET Balmo Future	Future
PLM	PLM	Propane, OPIS Mt. Belvieu TET Mini Future	Future
AFK	SCP	Propane, Argus Saudi CP Mini Future	Future
GCY	GCY	Natural Gasoline, OPIS Mt. Belvieu Non-TET vs Naphtha CIF NWE Cargoes (Platts) Future	Future