

Tin Market Update

Beer & Co Tin Conference 2017

Presented by Joe Vu
November 2017

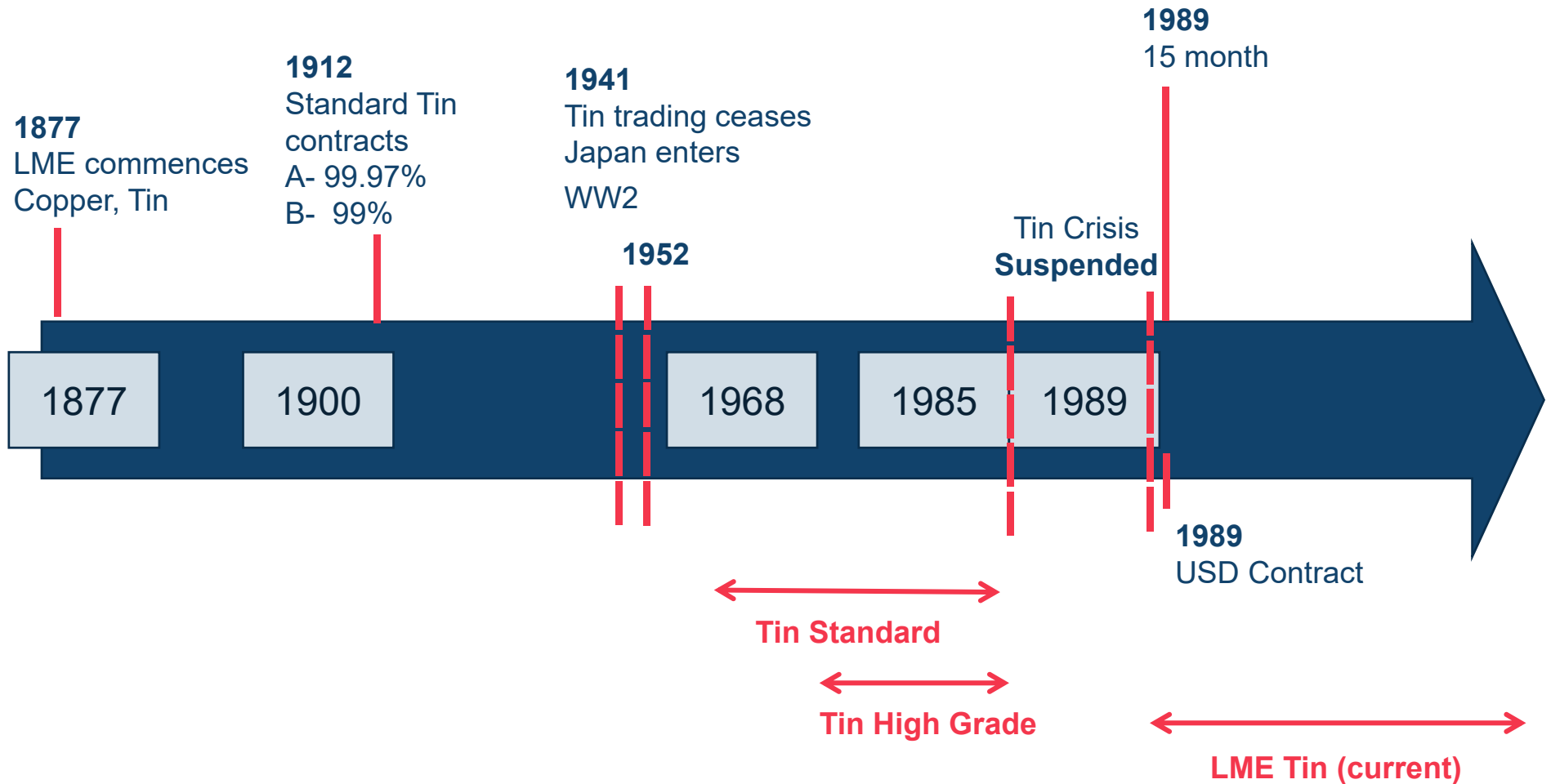


SETTING THE GLOBAL STANDARD



140 years setting the global tin reference price

Evolving with the needs of physical industry



Continued investment: physical relevance

Pricing represents physical market, thanks to wide range of deliverable brands



Brand listing:
Production capacity of 1,000mt/yr
In production for at least 12 months

LME Tin Brands

9 out of the world's top 10 producers have LME deliverable brands

Listing parameters amended to streamline process and capture tin producers with smaller production capacities

Country	Brand	Producer	Year Listed
Belgium	MC	Metallo-Chimique N.V.	Pre 2002
Bolivia	ENAF	Empresa Metalurgica Vinto	Pre 1998
Brazil	MAMORE	Mineracao Taboca SA	Pre 2000
	WHITE SOLDER BRASIL	White Solder Metalurgia e Mineracao Ltda	2015
China	JH	Laibin China Tin Smelting Co., Ltd.	1992
	PGMA	CNMC (Guangxi) PGMA Co., Ltd.	2002 – currently suspended
	YS	Gejiu Zili Mining and Smelting Co., Ltd.	1998
	YT	Yunnan Tin Company Limited	1992
	YUNHENG	Yunnan Chengfeng Non-Ferrous Metals Co., Ltd.	2006
	YINSHENG	Gejiu Jinye Mineral Co Ltd	2015
Indonesia	BANKA	PT. Timah (Persero) TBK	Pre 2002
	IMLI	PT. Bukit Timah	2011
	IMLI BELITUNG	PT. Babel Inti Perkasa	2016
	KUNDUR	PT. Timah (Persero) TBK	2010
	MENTOK	PT. Timah (Persero) TBK	Pre 2002
	MSP	PT Mitra Stania Prima	2017
	RBT	PT. Refined Bangka Tin	relisted in 2017
	PTU	PT Prima Timah Utama	2017
	TININDO	PT. Tinindo Inter Nusa	2012
Malaysia	MALAYSIA SMELTING CORPORATION	Malaysia Smelting Corporation Bhd.	Pre 2002
Thailand	PHUKET	Thailand Smelting & Refining Co Ltd	1997
	THAISARCO	Thailand Smelting & Refining Co Ltd	Pre 1991

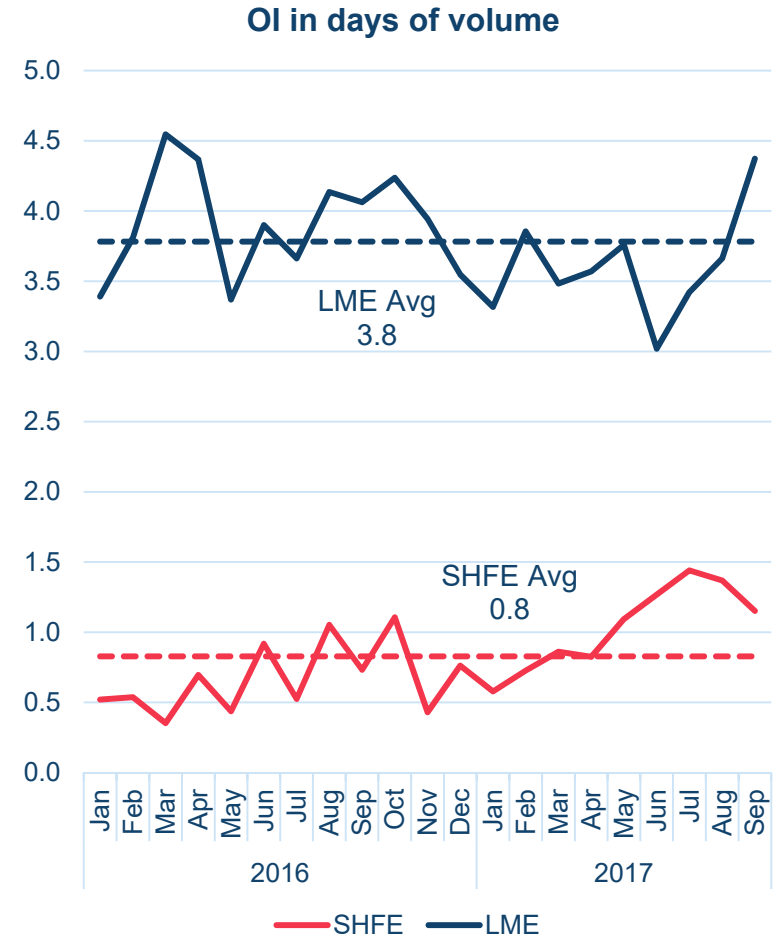
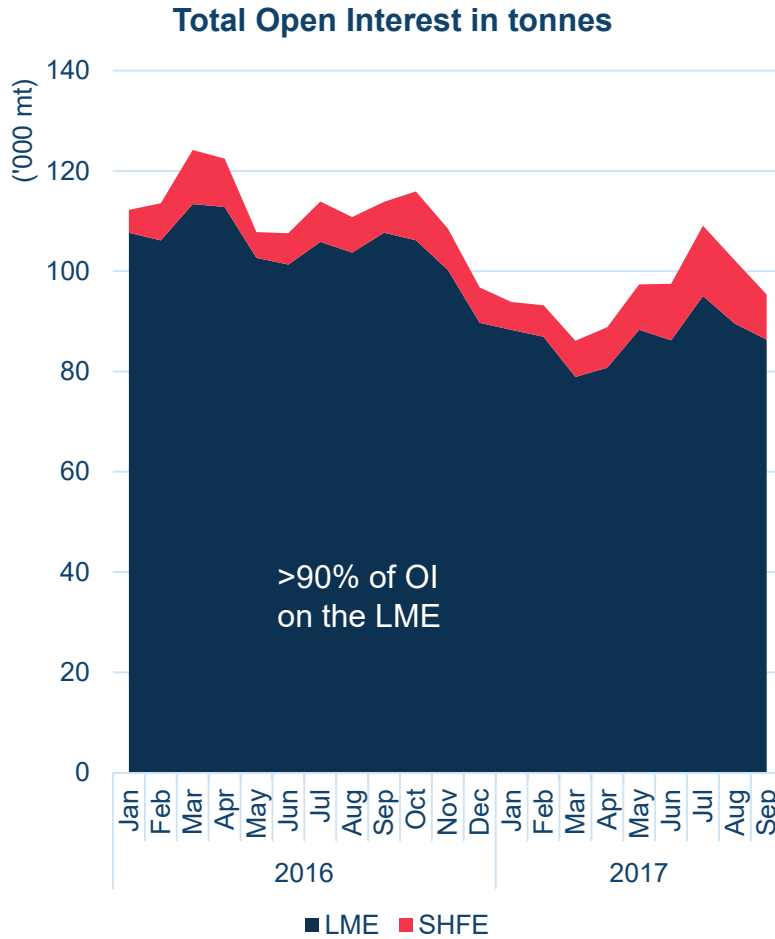
Added in 2017

Tin prices 2017 under performing



London remains the home of Tin positions

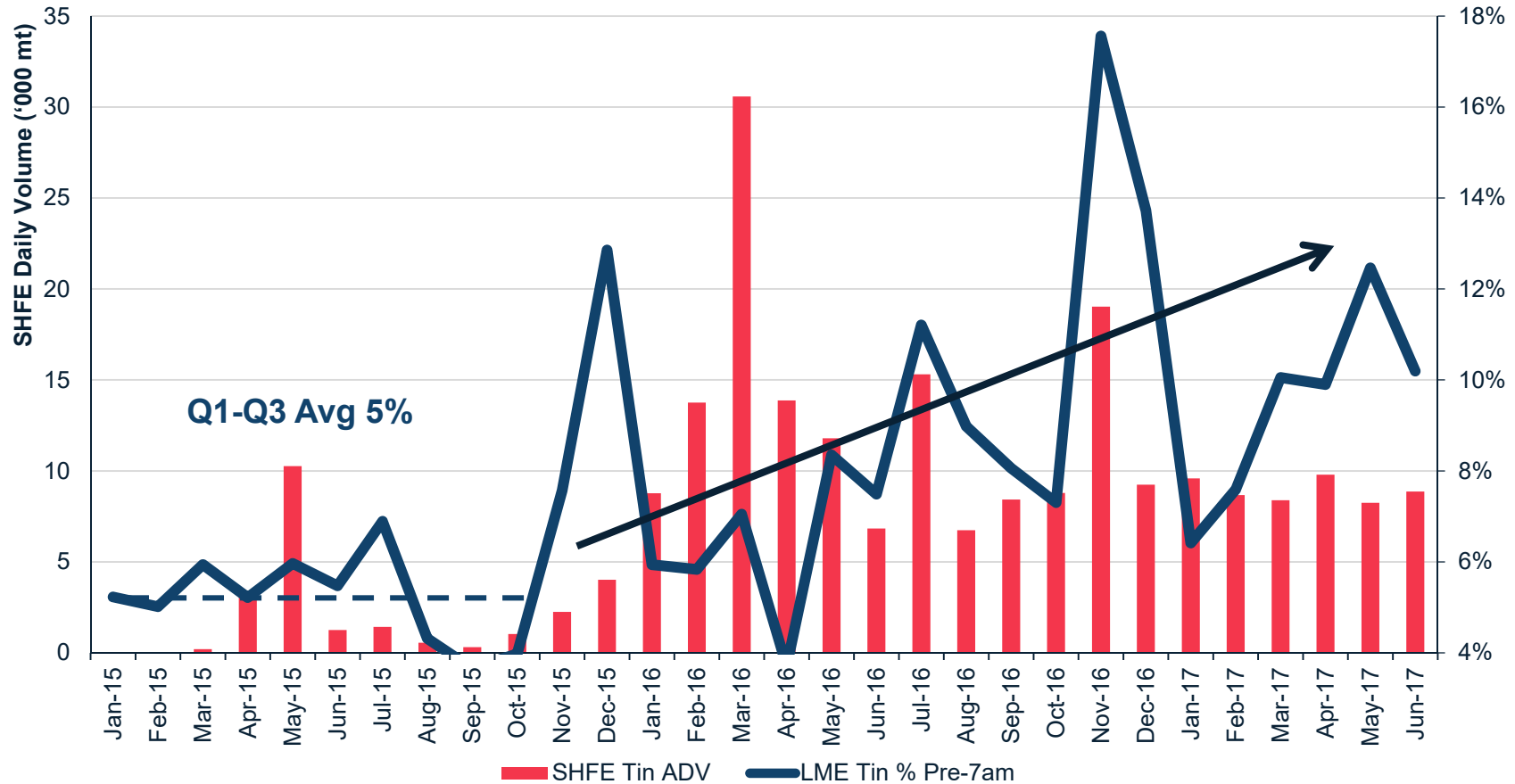
LME's physical client base is demonstrated by open positions



Evidence of arbitrage activity

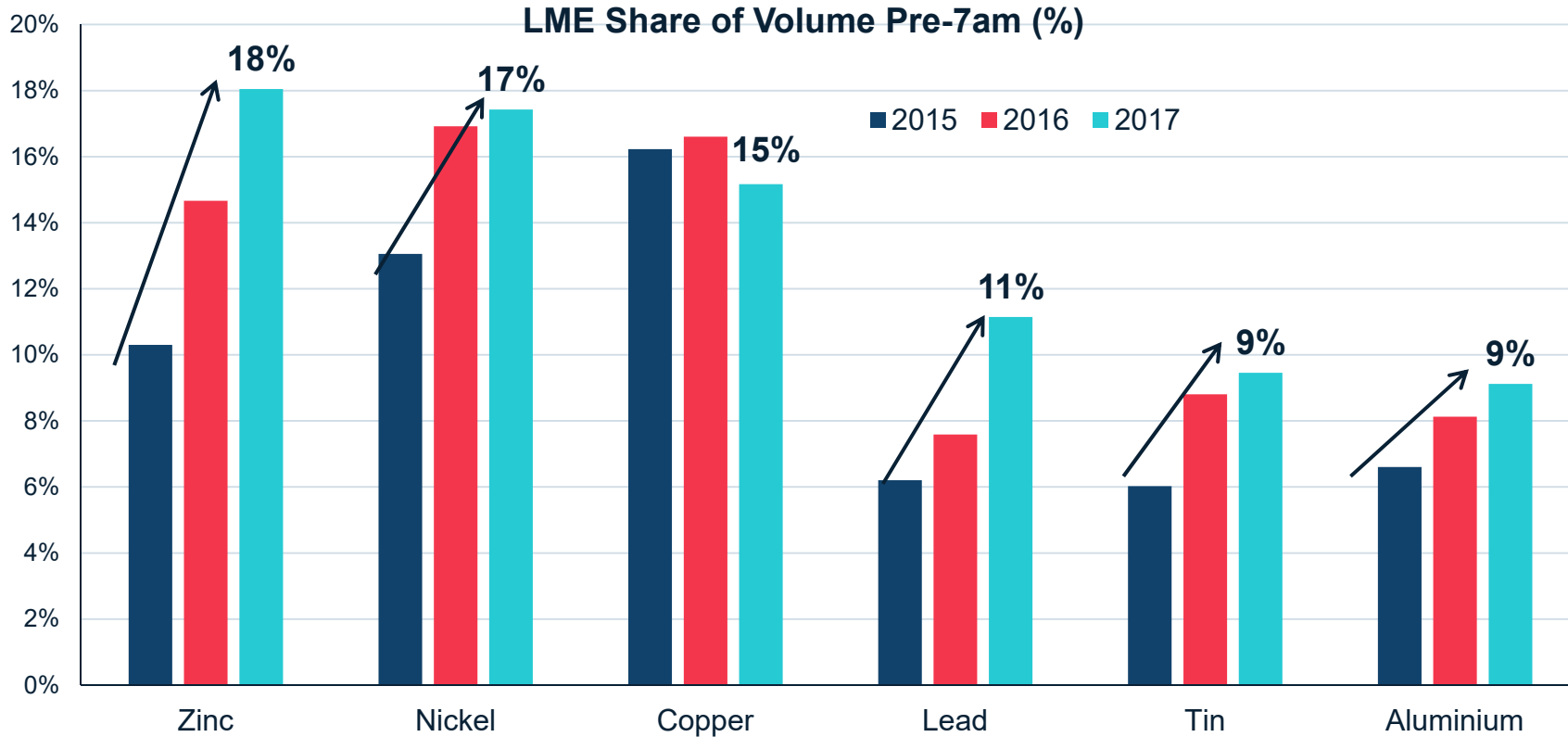
Asian hour tin volumes has grown since SHFE contract launched

Tin volumes



To be supported by change in trade taxes?

Higher trade taxes correlate with lower Asian hour volumes



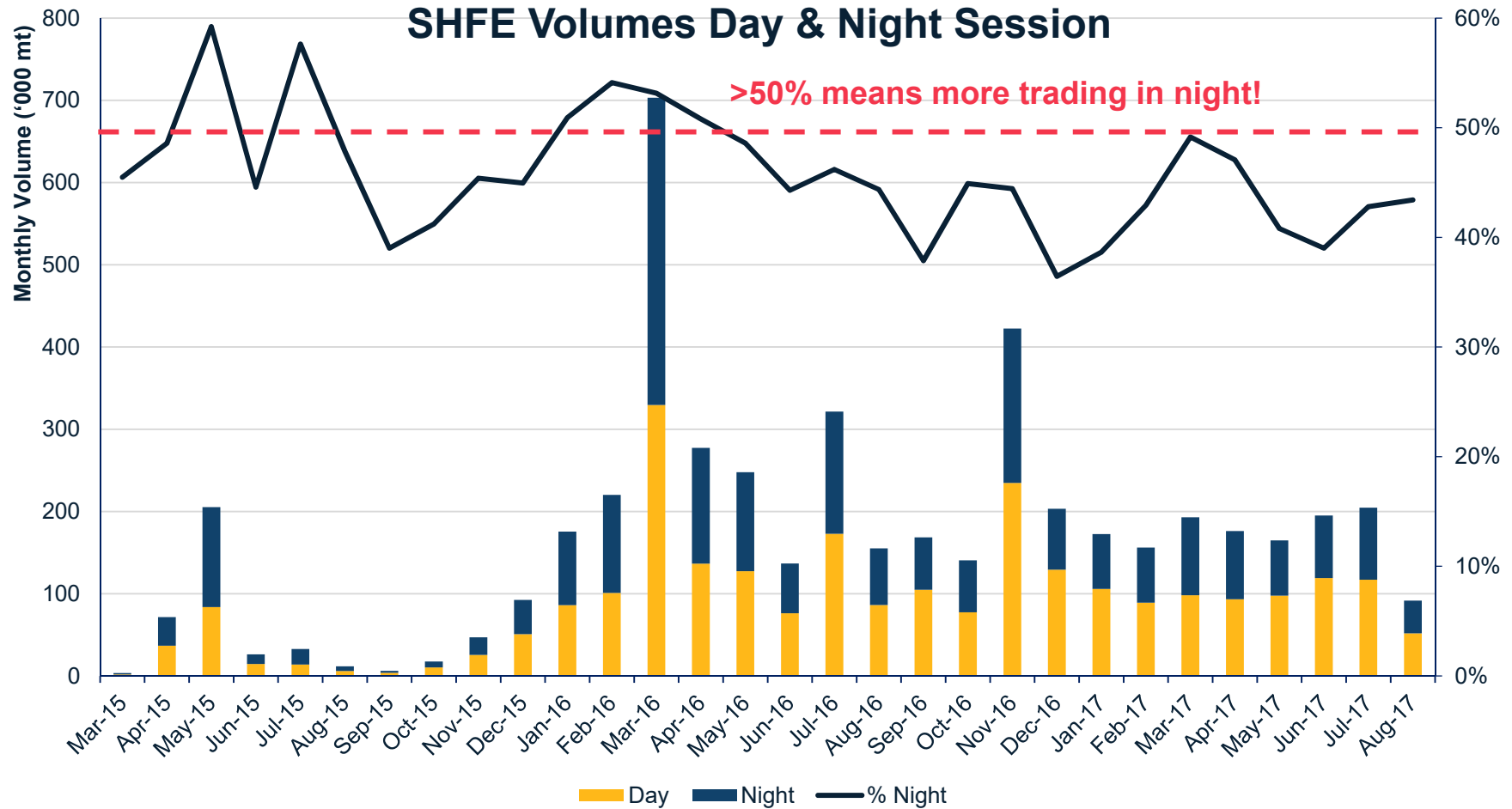
China trade taxes

Import	0%	3%	0%	3%	3%	0%
Export	1%	5%	5%	0%/10%	0%/10%	15%

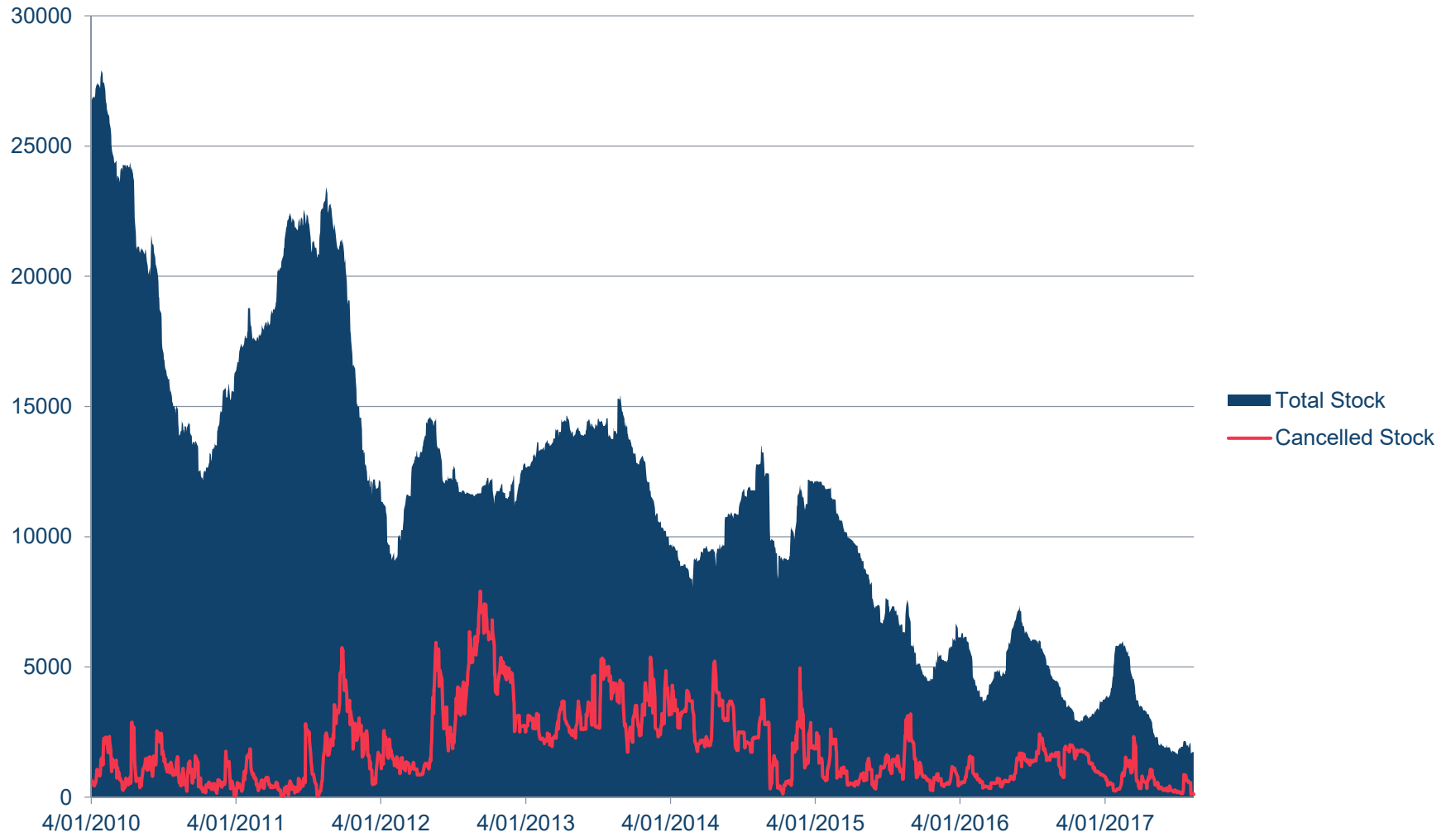
% is based purely on the 3M trading on LMESelect

London hours give SHFE Tin relevance

A high portion (>40%) of SHFE Tin trades in the Chinese night time to arb with London

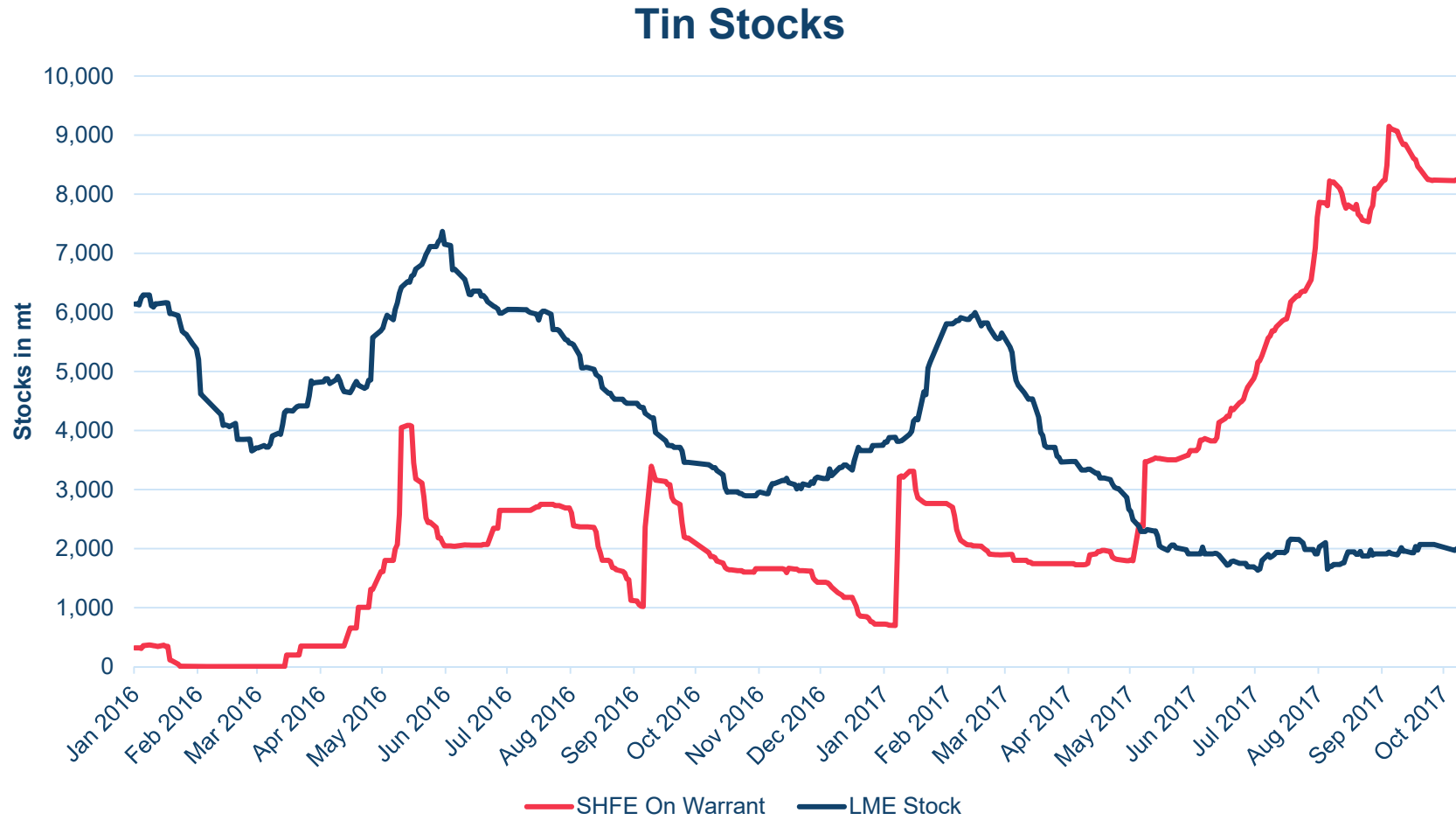


LME Warehouse Tin Stocks

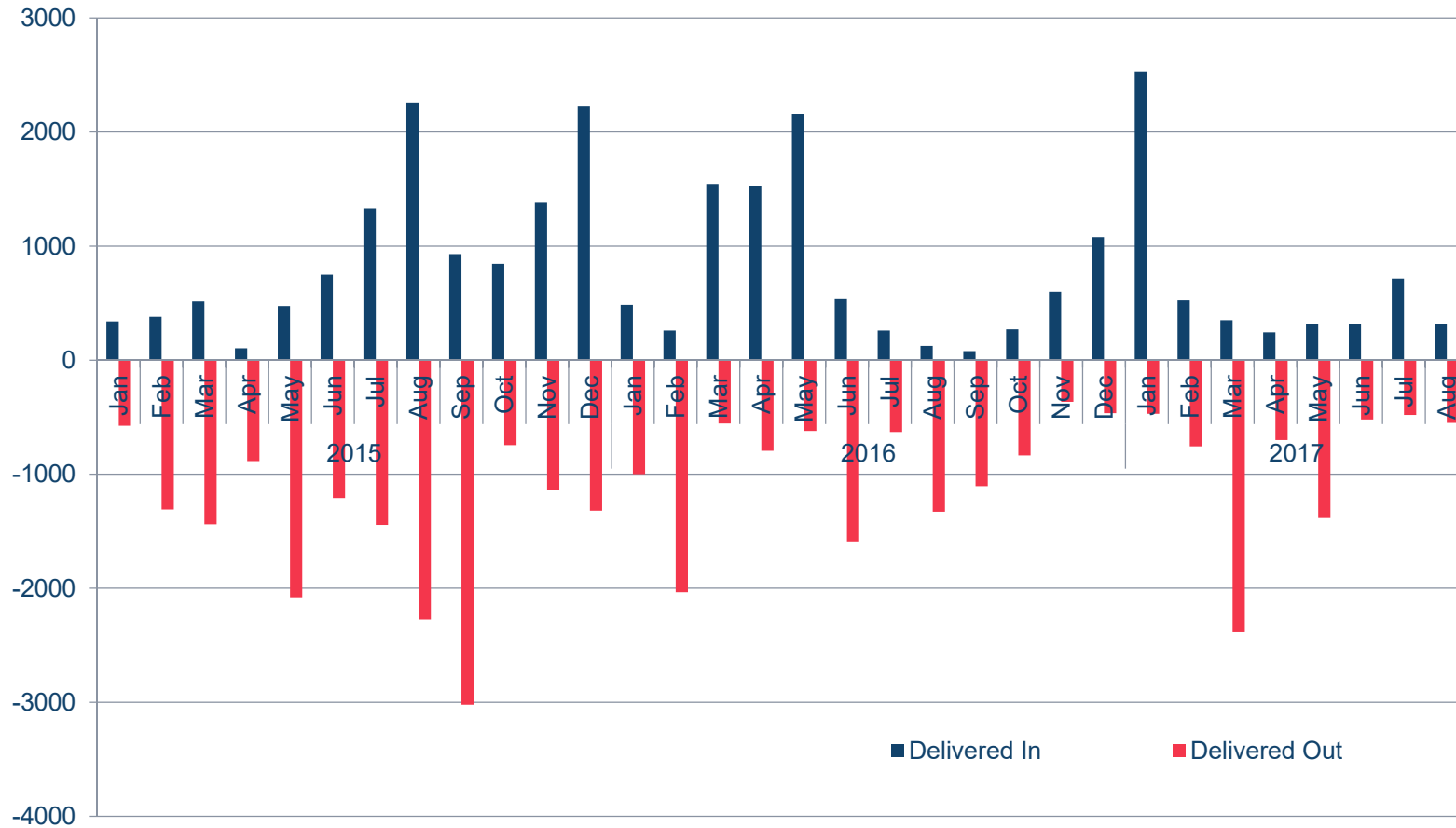


Tin Stocks

SHFE vs LME inventories

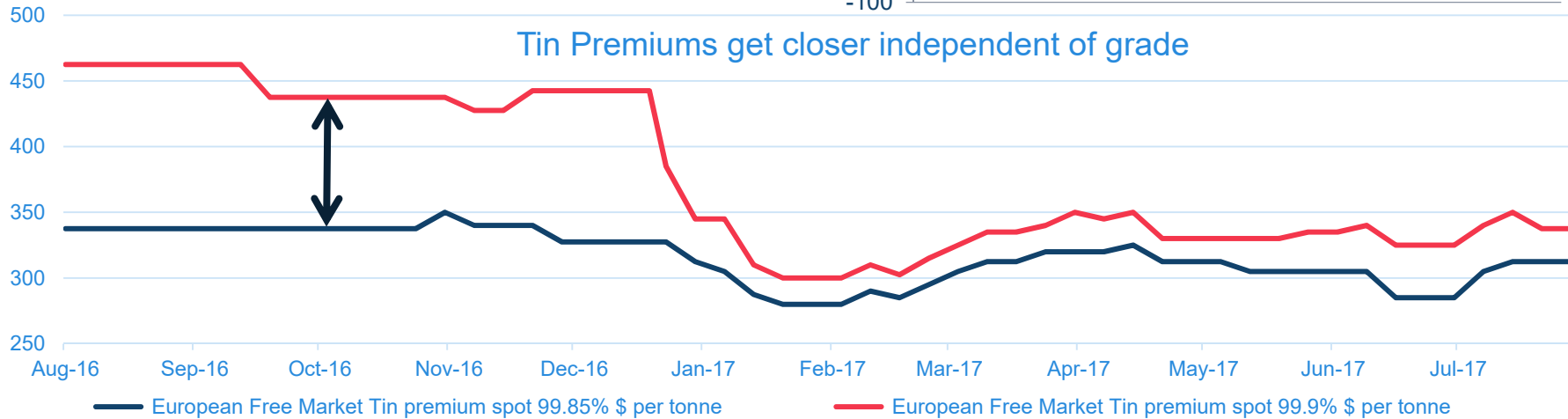
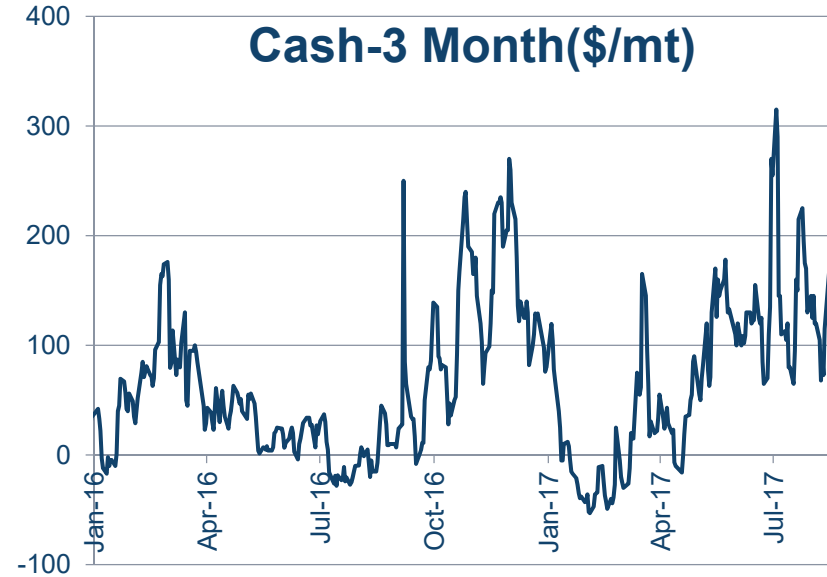


Stock flow remains robust both in & out

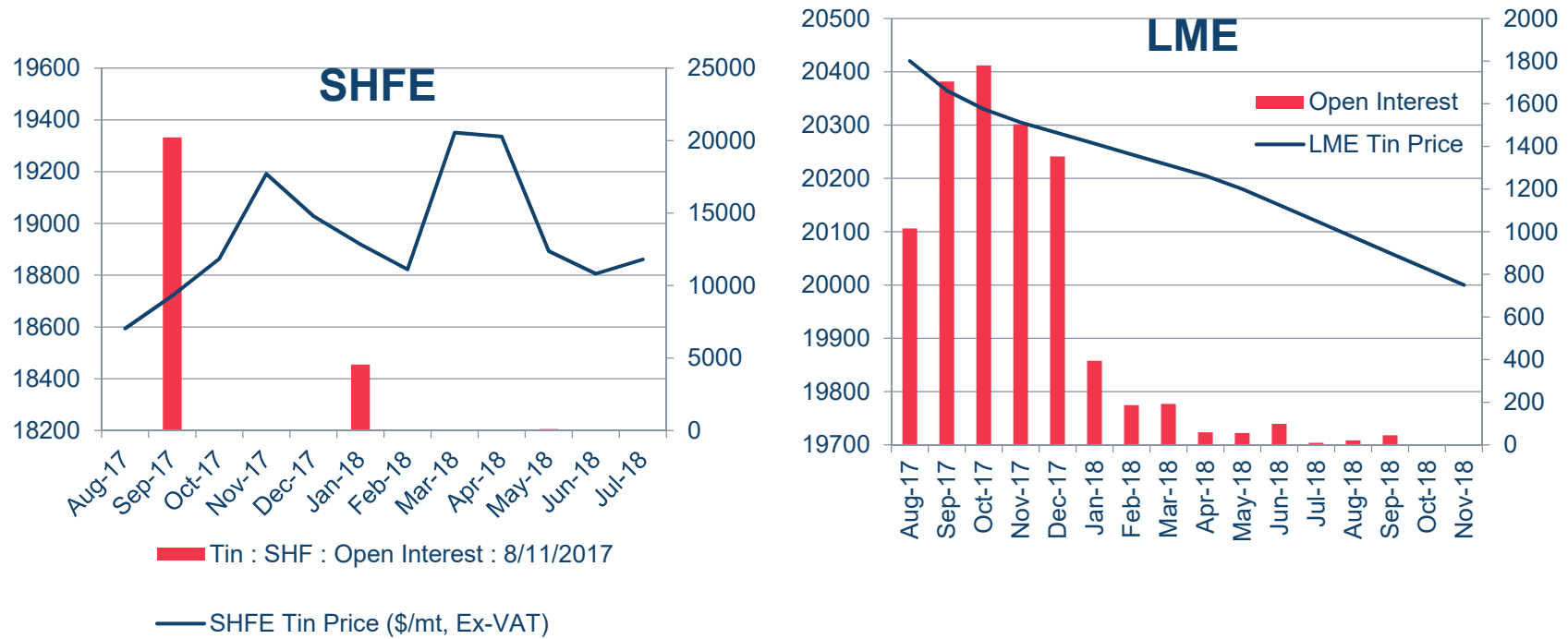


Market in Continuous Backwardation

High grade premium is closer to 99.85%



Compare SHFE vs LME forward curve



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Appendix 1

Historical LME Tin Inventory Levels

