		Three Months Ended										
le Millione of Dellans		December 31, 2016		rch 31,		ne 30,	September 30,			mber 31,		
In Millions of Dollars		2016		2017		2017		2017		2017		
EBITDA Excluding LCM Adjustmen		502	Ф	722	Ф	050	ф	61.6	Ф	704		
Olefins & Polyolefins - Americas	\$	592	\$	723 520	\$	859	\$	616	\$	784		
Olefins & Polyolefins - EAI Intermediates & Derivatives		398		529		699		698		356		
		306 81		339		339		402 58		410		
Refining				(30)		25				104		
Technology		61		60		48		47		68		
Other Total	-	(3)		(4)		1,970		1,821		4		
i otai		1,435		1,617		1,970		1,021		1,726		
Less:												
LCM Adjustments:												
Olefins & Polyolefins - Americas		29		-		-		-		-		
Olefins & Polyolefins - EAI		-		-		-		-		-		
Intermediates & Derivatives		-		-		-		-		-		
Refining		-		-		-		-		-		
Technology		-		-		-		-		-		
Other		-		-		-		-		-		
Total		29				-		-		-		
EBITDA:												
Olefins & Polyolefins - Americas		563		723		859		616		784		
Olefins & Polyolefins - EAI		398		529		699		698		356		
Intermediates & Derivatives		306		339		339		402		410		
Refining		81		(30)		25		58		104		
Technology		61		60		48		47		68		
Other		(3)		(4)		_		-		4		
Total	\$	1,406	\$	1,617	\$	1,970	\$	1,821	\$	1,726		

In Millions of Dollars	2013	2014	2015	2016	2017	Average 2013 - 2017
EBITDA Excluding LCM Adjustments:						
Olefins & Polyolefins - Americas	\$ 3,573	\$ 4,190	\$ 3,821	\$ 2,906	\$ 2,982	\$ 3,494
Olefins & Polyolefins - EAI	839	1,410	1,855	2,067	2,282	1,691
Intermediates & Derivatives	1,492	1,552	1,656	1,333	1,490	1,505
Refining	182	409	519	72	157	268
Technology	232	232	243	262	223	238
Other	(7)_	17	(13)	(9)		(2)
Total	6,311	7,810	8,081	6,631	7,134	7,194
Less:						
LCM Adjustments:						
Olefins & Polyolefins - Americas	_	279	160	29	_	\$ 94
Olefins & Polyolefins - EAI	_	44	30		_	15
Intermediates & Derivatives	_	93	181	_	_	55
Refining	_	344	177	_	_	104
Technology	_	-	-	_	_	-
Other	_	-	-	_	-	_
Total		760	548	29		268
EBITDA:						
Olefins & Polyolefins - Americas	3,573	3,911	3,661	2,877	2,982	3,400
Olefins & Polyolefins - EAI	839	1,366	1,825	2,067	2,282	1,676
Intermediates & Derivatives	1,492	1,459	1,475	1,333	1,490	1,450
Refining	182	65	342	72	157	164
Technology	232	232	243	262	223	238
Other	(7)	17	(13)	(9)		(2)
Total	\$ 6,311	\$ 7,050	\$ 7,533	\$ 6,602	\$ 7,134	\$ 6,926

Reconciliation of Net Income To EBITDA

			Three Months E	nded	
In Millions of Dollars	December 31, 2016	March 31, 2017	June 30, 2017	September 30, 2017	December 31, 2017
Net Income	\$ 763	\$ 797	\$ 1,130	\$ 1,056	\$ 1,894
Loss from Discontinued Operations	7	8	4	2	4
LCM Adjustments, After Tax	18				
Income from Continuing Operations Excluding LCM Adjustments	788	805	1,134	1,058	1,898
Less:					
LCM Adjustments, After Tax	(18)				
Income from Continuing Operations	770	805	1,134	1,058	1,898
Provision for (benefit from) Income Taxes	282	315	459	380	(556)
Depreciation and Amortization	273	296	286	294	298
Interest expense, net	81	201	91	89	86
LCM Adjustments, Pre Tax	29	-	-	-	-
EBITDA Excluding LCM Adjustments	1,435	1,617	1,970	1,821	1,726
LCM Adjustments, Pre Tax	(29)				
EBITDA	\$ 1,406	\$ 1,617	\$ 1,970	\$ 1,821	\$ 1,726

Reconciliation of Net Income To EBITDA

				For the	Years	s Ended Do	ecemb	er 31,	
In Millions of Dollars	2	013	2014		2015		2016		2017
Net Income	\$	3,853	\$	4,168	\$	4,474	\$	3,837	\$ 4,877
Loss from Discontinued Operations		7		4		5		10	18
LCM Adjustments, After Tax				483		351		18	
Income from Continuing Operations Excluding LCM Adjustments		3,860		4,655		4,830		3,865	4,895
Less:									
LCM Adjustments, After Tax				(483)		(351)		(18)	
Income from Continuing Operations		3,860		4,172		4,479		3,847	4,895
Provision for Income Taxes		1,136		1,540		1,730		1,386	598
Depreciation and Amortization		1,021		1,019		1,047		1,064	1,174
Interest expense, net		294		319		277		305	467
LCM Adjustments, Pre Tax		-		760		548		29	-
EBITDA Excluding LCM Adjustments		6,311		7,810		8,081		6,631	7,134
LCM Adjustments, Pre Tax				(760)		(548)		(29)	
EBITDA	\$	6,311	\$	7,050	\$	7,533	\$	6,602	\$ 7,134

Reconciliation of Diluted EPS from Continuing Operations Excluding LCM Adjustments to Diluted EPS from Continuing Operations

	Three Months Ended											
	December 31, 2016		31, March 31, 2017		June 30, 2017		September 30, 2017			ember 31, 2017		
Diluted Earnings Per Share from Continuing Operations Excluding LCM Adjustments	\$	1.94	\$	2.00	\$	2.82	\$	2.67	\$	4.80		
Less: LCM Adjustments		0.05				-		-		-		
Diluted Earnings Per Share from Continuing Operations	\$	1.89	\$	2.00	\$	2.82	\$	2.67	\$	4.80		

Reconciliation of Diluted EPS from Continuing Operations Excluding LCM Adjustments to Diluted EPS from Continuing Operations

	For the Years Ended December 31,									
	2013		2014		2015		2016			2017
Diluted Earnings Per Share from Continuing Operations Excluding LCM Adjustments Less:	\$	6.76	\$	8.92	\$	10.35	\$	9.20	\$	12.28
LCM Adjustments		-		0.92		0.75		0.05		-
Diluted Earnings Per Share from Continuing Operations	\$	6.76	\$	8.00	\$	9.60	\$	9.15	\$	12.28

Components of Cash and Liquid Investments

In Millions of Dollars		ember 31, 2016	ember 30, 2017	December 31, 2017		
Cash and Cash Equivalents and Restricted Cash	\$	878	\$ 1,211	\$	1,528	
Short-Term Investments		1,147	1,295		1,307	
Repurchase Agreements		369	561		570	
Cash and Liquid Investments	\$	2,394	\$ 3,067	\$	3,405	

Calculation of Free Cash Flow Yield

In Millions of Dollars (except share data)]	Year Ended December 31, 2017
Net Cash Provided by Operating Activities	\$	5,206
Less:		
Capital Expenditures		1,547
Free Cash Flow	\$	3,659
Divided by:		
Market Capital:		
Common stock outstanding		394,512,054
Closing Share Price, end of period	\$	110.32
Market Capital	\$	43,523
Free Cash Flow Yield		8.4%

Schedule of Spending for Dividends and Share Repurchases

For the Years Ended December 31,

In Millions of Dollars	2013		2014		2015		 2016	2017		
Dividends	\$	1,127	\$	1,403	\$	1,410	\$ 1,395	\$	1,415	
Repurchases of Ordinary Shares		1,949		5,788		4,656	2,938		866	
Total	\$	3,076	\$	7,191	\$	6,066	\$ 4,333	\$	2,281	

Calculation of LYB Return on Invested Capital (ROIC)

	Years End	ed Decen	nber 31,
In Million of Dollars	2016		2017
Income from Continuing Operations		\$	4,895
Less:			
Tax Benefit due to change in tax law			
from U.S. Tax Cuts and Jobs Act			819
Add:			
Interest Expense, Net			467
Effective Tax Rate (excluding Tax Benefit due to change in tax law)			25.8%
Interest Expense, Net, After Tax			347
Adjusted Income from Continuing Operations			4,423
Divided by:			
Average Invested Capital:			
Property, Plant & Equipment, Net	10,137		10,997
Current Assets	9,599		11,738
Less:			
Current Liabilities	4,540		4,777
Cash and Cash Equivalents	875		1,523
	\$ 14,321		16,435
Average Invested Capital	-	\$	15,378
Return on Invested Capital			29%

Reconciliation of Ratio of Total Debt to EBITDA

	 Three Months Ended									
In Millions of Dollars	arch 31, 2017		June 30, 2017	;	September 30, 2017	D	ecember 31, 2017	Dec	ember 31, 2017	
Current Maturities of Long-Term Debt Short-Term Debt Long-Term Debt								\$	2 68 8,549	
Total Debt as of December 31, 2017									8,619	
Divided by:										
EBITDA Ratio of Total Debt to EBITDA	\$ 1,617	\$	1,970	\$	1,821	\$	1,726	\$	7,134	