



毕老师

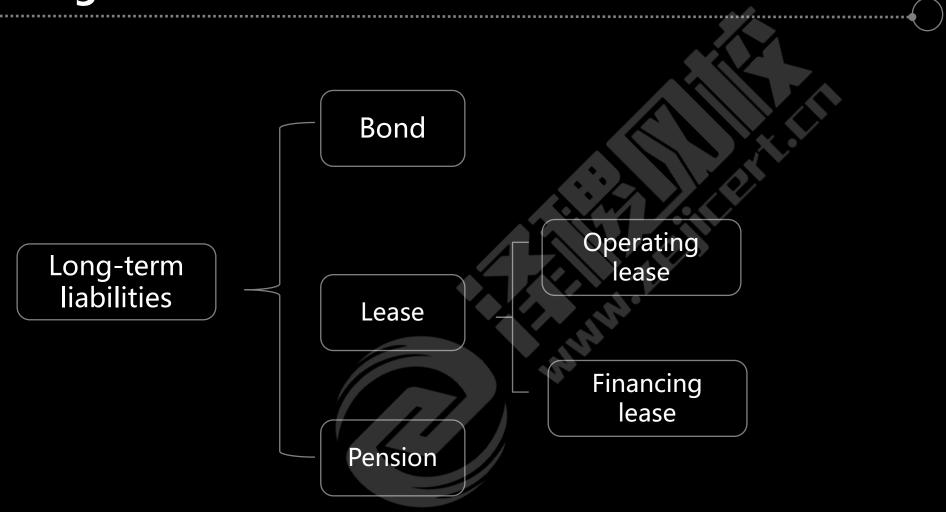


一级财报重难点—长期负债

直播时间--北京时间19:00-20:30 视频观看链接:

http://live.zejicert.cn/item?targetId=80

Long-term Liabilities



Long-term Liabilities--Bond

	Bond (effective interest rate method)			
	IFRS	GAAP		
Balance Sheet	创建长期负债bond payable,其价值等于债券发行收到的现金减去发行成本(issuance cost)。 Interest expense和coupon payment之差计入cumulative amortization,从而影响该负债的账面价值。	创建长期负债bond payable,其价值等于债券发行收到的现金。 Interest expense和coupon payment之差计入cumulative amortization,从而影响该负债的账面价值。		
Income Statement	Interest expense = bond payable $ imes$ effective interest rate			
Cash Flow Statement	Coupon payment = face value × coupon rate			

Long-term Liabilities--Example

On 31 Dec 2002, a company issued a three-year 10% annual coupon bond with a face value of \$1,000.

- Market interest rate at issuance is 10%
- Market interest rate at issuance is 8%
- Market interest rate at issuance is 12%

Market interest rate at issuance is 10%. The bond is issued at par.

	Beginning book value on 1 st Jan	Interest expense 10%	Coupon 10%	Ending book value on 31 st Dec
Year 2003	1,000	100	(100)	1,000
Year 2004	1,000	100	(100)	1,000
Year 2005	1,000	100	(100)	1,000

B/S: The bond liability remains at face value over the life of the bond.

I/S: Interest expense = Coupon payment = \$100

CFS: CFO cash outflow → \$100 = Coupon payment

CFF cash inflow \rightarrow \$1,000 on 31st Dec 2002 = Issue price

cash outflow → \$1,000 on 31st Dec 2005 = Redemption price

Market interest rate at issuance is 8%. The bond is issued at premium.

	Beginning	Interest	Coupon	Ending book
	book value on 1 st Jan	expense 8%	10%	value on 31 st Dec
Year 2003	1,051.54	84.12	(100)	1,035.66
Year 2004	1,035.66	82.85	(100)	1,018.52
Year 2005	1,018.52	81.48	(100)	1,000
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B/S: the bond liability will decrease towards the face value over the life of the bond.

I/S: Interest expense < Coupon payment. The amortization of premium will reduce the interest expense as shown.

CFS: CFO outflow = Coupon payment = \$100 p.a.

For analysis purpose, the interest expense and the amortization of the premium should be separated.

e.g. Year 2003

Cash	Original CFO	CFO for F/A	CFF for F/A
outflow	100	= 84.12 +	15.88

Without adjustment: CFO is understated and CFF is overstated.

Market interest rate at issuance is 12%. The bond is issued at discount.

	Beginning book value on 1 st Jan	Interest expense 12%	Coupon 10%	Ending book value on 31 st Dec
Year 2003	951.96	114.24	(100)	966.2
Year 2004	966.2	115.94	(100)	982.14
Year 2005	982.14	117.86	(100)	1,000

B/S: the bond liability will increase towards the face value over the life of the bond.

I/S: Interest expense > Coupon payment. The amortization of discount will increase the interest expense as shown.

CFS: CFO outflow = Coupon payment = \$100 p.a.

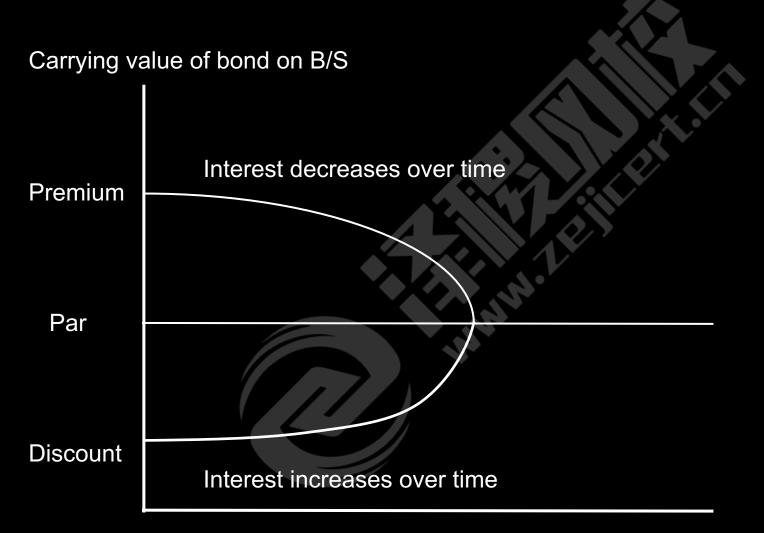
For analysis purpose, the interest expense and the amortization of the discount should be separated.

e.g. Year 2003

Cash outflow/	Original CFO		CFO for F/A		CFF for F/A	Cash
inflow	100	=	114.24	NI III	14.24	inflow

Without adjustment: CFO is overstated and CFF is understated.

Long-term Liabilities--Bond



To maturity

Long-term Liabilities--Bond

Innovative Inventions, Inc. needs to raise \$10 million and typically would issue coupon-bearing bonds at par value. If the company chooses to issue zero-coupon bonds instead, its debt-to-equity ratio will

- A rise as the maturity date approaches.
- B. decline as the maturity date approaches.
- C. remain constant throughout the life of the bond.

Long-term Liabilities--Lease

- Finance versus operating leases
 - A finance lease is equivalent to the purchase of some asset by the buyer (承租人) that is directly financed by the seller (出租人).
 - An operating lease is an agreement allowing the lessee to use the asset for a period of time.

Long-term Liabilities--承租人对于租赁的账目处理

	Finance Lease	Operating Lease
Balance Sheet	创建长期资产及负债,其价值Leased asset = Lease liability = PV of Minimal lease payment (MLP) MLP = Future lease payment over lease term 长期资产在租赁期内折旧。负债及其在租赁期内产生的利息通过支付的租金来偿还。	No effect
Income Statement	Depreciation expense + Interest expense Interest expense = Beginning lease liability × discount rate	Rental expense
Cash Flow Statement	支付的租金中用于支付Interest的部分计入CFO,剩余的部分用于Principal repayment,计入 CFF。	CFO outflow

Long-term Liabilities--租赁对财务报表的影响(承租人角度)

		Finance lease	Operating lease
D/C	Assets	Higher	
B/S	Liabilities	Higher	
	EBIT	Higher	
	Net income in early years	Lower	Reverse
I/S	Net income in later years	Higher	
	Total net income	Same	Same
	CFO	Higher	Poverse
CFS	CFF	Lower	Reverse
01.0	Total CF	Same	Same

Long-term Liabilities--租赁对比率的影响(承租人角度)

	Finance lease	Operating lease
Current ratio	Lower	
Working capital	Lower	
Asset turnover	Lower	Doverso
ROE (in early years)	Lower	Reverse
Debt/asset	Higher	
Debt/equity	Higher	

Long-term Liabilities--Lease

- 租赁对出租人(lessor)的影响
 - 在US GAAP下,对于出租人,融资性租赁可以分为两种:
 - When the present value of lease payments equals the carrying amount of the leased asset, it is a direct financing lease (DFL).
 - When the present value of lease payments exceeds the carrying amount of the leased asset, it is a sales-type lease (STL).
 - 在IFRS下,对融资性租赁不做上述区分。

Long-term Liabilities--出租人对于租赁的账目处理

	Financ	Operating	
	Direct financing lease	Sales-type lease	Lease
Balance Sheet	抹掉出租的资产,同时创建le PV of Minimal lease payme MLP = Future lease payme 每期收到的租金,一部分是le 入,剩余的部分抵消lease re	No effect	
Income Statement	Interest income = Beginning lease receivable × discount rate	Rental income	
Cash Flow Statement	收入的租金中属于Interest的于抵lease receivable, 计入	CFO inflow	

Long-term Liabilities--Lease

In the early years, compared to a lessee that uses finance (capital) leases, a lessee that uses operating leases will have a lower:

- A. return on assets.
- B. current ratio
- C. debt-to-equity ratio.





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