BARUCH COLLEGE - DEPARTMENT OF ECONOMICS & FINANCE - FIN4710

Professor Chris Droussiotis

LECTURE 6

Chapter 14

Financial Analysis – example (Celerity Technology)

– PRINT SPREADSHEET ON FINANCIAL ANALYSIS FOR CELERITY TECHNOLOGY

Perfect World - all cash - Lemonade stand



I/S and CF – Differences (Taxes – Depreciation, Amortization of Fees (Capitalized)

- Capex (Non deductible)
- Working Capital (Timing Differences) Changes in Balance Sheet
- Financing Activities (New/repayment of debt)

Income Statement

- Unlike the Balance Sheet that is a snap-shot at a particular time, the Income Statements show the flow over time (one year / one quarter/ one month)
- Measures profitability for that period
- EBITDA

Cash Flow Statement

- Working Capital
- Capex (Maintenance / Growth Capex)
- Acquisitions
- Selling Assets/property Disposition of Assets
- Principal Payments
- Raising New Financing/IPO Equity
- Beginning/Ending Cash

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Financial Ratios

Definition

Trend Analysis Ratios

Revenue Growth Stock one-year Return

Liquidity Ratios

Current Ratio Quick ratio Accounts Receivable Turnover (ART) Accounts Receivable Days

Solvency Ratios

Debt/Equity Ratio LTD / Total Capitalization EBITDA / Interest (Coverage Ratio)

EBIT / Interest

Fixed Charge Coverage Ratio Cash Avail.for Debt Service / Debt Service

LTD / EBITDA (Leverage Ratio)

Activity Ratios / Operating Ratios

Inventory Ratio (IR) Inventory Ratio - Days Fixed Asset Turnover Ratio Asset Turnover Ratio

Profitability Ratios

Gross Margin EBITDA Margin EBIT Margin Return on Assets (ROA) Gross Return on Assets Return on Equity (ROE)

Market Ratios

Stock Price Total Shares Outstanding Market Value of Equity Market-to-Book Earnings Per Share (EPS) Price Earnings Ratio (PE) EV / EBITDA CA/CL (Cash + A/R) / CL Revenue/Avg AR 365 / ART

LTD / Equity LTD / (LTD + Equity) EBITDA / Interest EBIT / Interest (EBITDA-Capex)/(Int+ST+ LT Pmts) (CABFA + int.) / (Int. + ST+LT Pmts) LTD / EBITDA

Cost of Revenues/Avg Inventory 365 / IR Rev / Avg of FA Rev / Avg of Total Assets

Gross Margin / Revenues EBITDA / Revenue EBIT / Revenue NI / Avg Assets EBIT / Avg Assets NI / Avg Equity

NI / Avg Shares Outstanding Market Price / EPS (MVE + LTD + STD - Cash) / EBITDA

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Other Ratios

Altma's Z-score

<u>Z Formula</u>

Z = 1.2x (WC/TA) + 1.4x(RE/TA)+3.3x(EBIT/TA)+0.6x(MVE/Liabilities) + 0.99x(Sales/TA)

WC = Working Capital TA=Total Assets RE=Retained Earnings MVE=Market Value of Equity

<u>Z-Score</u>	Bankruptcy
1.8x or less	Likely
Between 1.8 - 3.0	Uncertain
3.0 or above	Not likely

Three questions:

- 1. How does it compare versus last year
- 2. How does it compare versus their peers / Competition
- 3. How does it compare versus expectations