Valvoline Inc. (NYSE: VVV)

Shannon Burchett | Jake Thornburg

Valvoline: Premier Name in Oil Change



A well-known player within the automotive services industry with numerous service offerings and consistent growth

Business Overview

- Wide variety of services offered: 15-minute stay-in-your-car oil changes; battery, bulb, and wiper replacement; tire rotations: etc.
- Over 1,850 locations in North America that are operated ٠ directly or franchised
- Operate under the names "Valvoline Instant Oil Change" • and "Valvoline Great Canadian Oil Change"



Revenue Growth (\$mm)



The Valvoline Difference



Leverage and Capital Structure

Capital Structure

	Rate	Maturity	Amount	Рx	YTM	Market
RCF	7.433%	Apr-24		100.00	7.286%	
Term Loan	7.069%	Apr-24	\$463	100.00	6.936%	\$463
2031 Notes	3.625%	Jun-31	\$535	85.43	6.100%	\$457
2030 Notes	4.250%	Feb-30	\$600	99.29	4.384%	\$596

Leverage Ratio (Lease Adjusted)

Coverage Ratio

4.0x

9.8x

Sources: Company Filings, 2023 Q4 Earnings Report, CapitalQ

Breakdown of Retail Service Stores



Not simply an oil change business, Valvoline provides several offerings and has grown their store count substantially

Summary of Services Offered



74% of Revenue from Motor Oil Changes

System Wide Store Count



Takeaway: Valvoline has put heavy emphasis on expanding their store count Have increased the number of wholly owned and operated stores at a greater rate than franchised stores Growth in store count will be positioned to accelerate even further post-divestiture

Notre Dame INVESTMENT CLUB

Sources: Company Filings

Divestiture of Global Products Segment



With the divestiture of their global products segment in '22/'23, Valvoline is poised for strong upside financially in future

Divestiture Structure and Overview

- Prior to late 2022/early 2023, Valvoline was composed of two segments: retail services and global products
- The global products segment consisted of several auto products such as lubricants, coolants, chemicals, filters, etc.
- In August of 2022, Valvoline announced that they had come to an agreement with Aramco for the purchase of their global products segment for \$2.65B
- Transaction was officially completed in March of 2023; net proceeds from sale were **\$2.38B**

Use of Proceeds from Sale

Key Benefits of Transaction



Global products monetized at attractive valuation with significant capital return to shareholders



Creation of pure-play auto services business with increased margins and greater company focus



Ability to accelerate retail services evolution as hybrid and EV market grows



Industry with Significant Whitespace



With about 5% of the current market share, Valvoline has the opportunity to drastically expand their scope in near future



Notre Dame INVESTMENT CLUB

Sources: Company Filings, 2023 Q4 Earnings Report, FRED

Oil Change Industry Characteristics



The oil change industry is characterized by differentiation through three primary factors: brand, speed, and price

Brand + Speed + Price = Competitive Edge

Brand:

- Customers inclined to go with a name they know
- Brand presence is extremely important in the industry as it often indicates safety and reliability to customers
- Key reason why a customer would choose a large company

Speed:

- Customers inclined to go with a service center that is fast and convenient
- Speed, in this instance, refers not only to the speed of the oil change but also to the time it takes for the customer to travel to the service center

Price:

- Customers inclined to go with the best option for their **price range**
- There is not very drastic difference in pricing amongst competitors
- **Greater volume** allows for service centers to decrease price and attract more customers



"It's convenience, it's speed, and to a certain degree it's the quality of the service and product that's being offered"

Jake Lestan, Senior Director of Marketing and Consumer Engagement





3-Pronged Approach to Topline Enhancement Valvoline

Increases in store count, number of customers, and ticket value poise Valvoline for revenue expansion

3 Factors Drive Strong Growth



Store Count

- Significant store count growth expected to be key contributor to compounding revenue
- Future potential for 3,500+ stores as store count growth should increase every year



Number of Customers

- Poaching from competitors in multiple markets
- Greater volume = greater convenience = more customers
- Increasing car park year over year leads to greater number of customers



Ticket Value

- More stores, more customers leads to more pricing power and increased ticket size
- Enhanced focus on cross-selling multiple services per customer visit

Key Growth Assumptions



Our growth assumptions are based on strong historical SSS growth and management's store count growth plans



What the Street is Missing on VVV Growth



The street does not appreciate the growth potential of Valvoline based on a group of factors

Factor:	Industry	Industry Divestiture	
The Street	 View that industry is in serious decline for a variety of factors Do not see any significant growth coming out of the industry in the long term 	• Not appreciating or fully understanding Valvoline's business model and growth strategy as it comes off of the divestiture of their Global Products Segment	 View store count growth expectations from management as aggressive Belief of over-aggression enforced by conceptions about industry and divestiture
Our Case	 Valvoline is being valued as an aftermarket automotive services company when they have much in common with a high growth retailer They should be trading at a much higher multiple 	 Massive capital enhancement coming off of divestiture should enable Valvoline to grow their store count extremely aggressively Divested a lower growth business 	 Toolkit of options for continued store count growth Markets for growth include tier 1, tier 2, and rural communities Robust plan for growth moving forward

Execution of growth strategy will drive earnings beats which will lead to share price appreciation





Street Consensus



Wall Street maintains a very optimistic outlook on EVs and expects significant adoption in coming years

US EV Adoption



charging time could decrease

some buyer anxiety

incentives could force or at least heavily encourage an uptick in EV adoption

Notre Dame

INVESTMENT CLUB

favor of zero emission vehicles

on a macro level

Reverse DCF Suggests Market Belief in EVs Valvoline

Our Reverse DCF model shows that the market is pricing VVV with low terminal value, largely due to EV risk



		FYE Se	pt. 30			FYE Sep	t. 30			
		2022A	2023A	2024E	2025E	2026E	2027E	2028E	2029E	
Revenue		\$1,236	\$1,444	\$1,624	\$1,827	\$2,055	\$2,312	\$2,601	\$2,926	
Growth %	YOY Growth % 1	3%	17%	13%	13%	13%	13%	13%	13%	Implied Share Price
EBIT		213	308	357	402	452	509	572	644	Current Share Price
Margin %	Margin % 22	2% 17%	21%	22%	22%	22%	22%	22%	22%	
Less: Taxes	Tax, % of Revenue	(35)	(37)	(41)	(46)	(51)	(58)	(65)	(73)	
NOPAT		\$179	\$271	\$317	\$356	\$401	\$451	\$507	\$571	
Plus: D&A	% of CAPEX 5	5% 71	89	98	111	124	140	157	177	Implied Metrics
Less: ΔNWC	% of Revenue 2	273	(802)	(32)	(37)	(41)	(46)	(52)	(59)	Growth Bate
Less: CAPEX	% of Revenue 1	1% (132)	(181)	(179)	(201)	(226)	(254)	(286)	(322)	Growth Rate
										Terminal Growth Rate
Free Cash Flow		\$391	(\$623)	\$204	\$229	\$258	\$290	\$326	\$367	Exit Multiple
Period				0.75	1.75	2.75	3.75	4.75	5.75	Exit Multiple
Discount Factor	WACC 8.8	86%		0.938	0.862	0.791	0.727	0.667	0.613	
Present Value of Free Cash Flow				\$191	\$198	\$204	\$211	\$218	\$225	

\$35.32 \$36.18

> 13% 3.5% 10x

Primary Discovery on EVs



Dealers across a wide range of brands and price points are not as sold on EVs as the street may think



Ray Huffines, Huffines Dealerships – Hyundai, Chevrolet, Etc.

- "The supply exceeds the demand" Much easier to move ICE vehicles
- "In order to sell EVs, they're going to lose money" Government incentives encourage manufacturers to push EVs despite taking a loss
- "It's only going to work if you have a house" Not sustainable to only use public chargers
- "More of an early adapter" Primary buyers are those who want to look innovative
- "Some of these chargers are inoperable" Number of issues with charging stations and often overcrowded with other EV drivers



Jonathan Webb, Porsche St. Louis

- "We're sold out of most models and our electric stuff is piling up" Oversupply of EVs
- "They're not reliable; people have range anxiety" Concerns from consumers about range/reliability
- "It's getting forced on us by the manufacturer and the government" Manufacturers subsidized to promote EVs
- "Having to go to market sooner than would normally like" Dealerships not in favor
- "Clients don't necessarily want a silent engine" Buyers of high performance cars against EVs

What We Believe



Wall Street is far too optimistic on EV adoption rates for a plethora of different factors



Long-Term Upside for VVV



When EVs underperform, terminal value will appreciate and the share price of VVV will increase

A Chain Reaction



EV/EBITDA Exit Multiples



Investment Thesis



VVV will consistently outperform consensus expectations using a new growth strategy

The possibility of EV under-penetration creates significant option value

BUY

Price Target: \$45.52 Upside: 22.8%

II.

Valvoline Mishawaka







Appendix

TAM (Consensus EV Adoption)



Street consensus for EV adoption is 35% of new car sales in 2030, and exponential growth thereafter

#'s in MM	2023A	2025E	2030E	2035E	2040E	2045E	2050E
Beginning of Year Cars	283	287	297	308	321	334	349
New Vehicle Sales	16	16	18	20	22	24	26
CAGR		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
EV Sales	1.1	1.8	6.3	16.7	18.4	20.4	22.5
% of Total Car Sales	7%	11%	35%	85%	85%	85%	85%
Decomissioned Cars	(14)	(14)	(16)	(17)	(19)	(21)	(23)
As % of New Vehicle Sales	88%	88%	88%	88%	88%	88%	88%
End of Year Cars	285	289	299	311	323	337	352
Average Number of Cars	284	288	298	309	322	336	351
Beginning of Year EVs	2.8	4.9	18.3	63.8	125.0	176.4	219.6
EV Sales	1.1	1.8	6.3	16.7	18.4	20.4	22.5
Decommissioned EVs	(0.1)	(0.2)	(1.0)	(3.6)	(7.5)	(11.1)	(14.6)
End of Year EVs	3.7	6.5	23.6	76.9	136.0	185.6	227.5
% of Total Vehicles	1%	2%	8%	25%	42%	55%	65%
Average Number of EV	3	6	21	70	131	181	224
Average Number of ICE	281	282	277	239	191	155	127
Miles Driven	3 231 719	3 296 677	3 161 810	3 6/1 582	3 877 339	1 022 572	1 227 763
CAGR	5,251,715	3,230,077 1 0%	1 <i>0</i> %	1.0%	1.0%	4,022,572 1 0%	4,227,703 1 0%
Miles per Car	11 367	11 ///	11 618	11 767	11 201	11 988	12 056
Miles per Cil Change	7 500	7 500	7 500	7 500	7 500	7 500	7 500
Oil Changes per Car	1 52	1 53	1 55	1 57	1 59	1 60	1 61
on enanges per ear	1.52	1.00	1.55	1.37	1.55	1.00	1.01
Total Oil Changes	426	431	430	375	303	247	204
CAGR		0.6%	(0.1%)	(2.7%)	(4.2%)	(4.0%)	(3.7%)

- Total oil changes will start to significantly decrease in the mid-2030s if consensus EV adoption comes to fruition
- Market saturation is 85%, as EVs are not feasible for all buyers
- Exponential growth has been exhibited in places such as California and Norway, leading to the aggressive consensus estimates

TAM (EV Underperformance Case)



Based on our primary discovery, we believe EV adoption is likely to underperform street consensus

#'s in MM	2023A	2025E	2030E	2035E	2040E	2045E	2050E
Beginning of Year Cars	283	287	297	308	321	334	349
New Vehicle Sales	16	16	18	20	22	24	26
CAGR		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
EV Sales	1.1	1.5	3.2	7.0	10.9	12.0	13.2
% of Total Car Sales	7%	9%	18%	35%	50%	50%	50%
Decomissioned Cars	(14)	(14)	(16)	(17)	(19)	(21)	(23)
As % of New Vehicle Sales	88%	88%	88%	88%	88%	88%	88%
End of Year Cars	285	289	299	311	323	337	352
Average Number of Cars	284	288	298	309	322	336	351
Reginning of Vear EV/s	2.8	18	13 1	30.3	63.7	96 5	12/1 0
EV Sales	2.0	4.0	2.2	7.0	10.0	12.0	12 7
	(0 1)	(0.2)	(0.7)	(1 7)	(2.0)	(6.1)	(0.2)
End of Year EVs	(0.1)	(0.2)	(0.7)	(1.7)	(3.0) 70 7	102.4	(0.3)
% of Total Vahicles	3.7 10/	0.0	13.0 E%	55.0 110/	70.7	200/	270/
	1/0	2/0	J/0	11/0	22/0	5076	3770
Average Number of EV	3	5	14	33	67	99	127
Average Number of ICE	281	283	284	277	255	236	224
Miles Driven	3 231 719	3 296 677	3 464 840	3 641 582	3 827 339	4 022 572	4 227 763
CAGR	0,201,710	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Miles per Car	11 367	11 444	11 618	11 767	11 891	11 988	12 056
Miles per Oil Change	7 500	7 500	7 500	7 500	7 500	7 500	7 500
Oil Changes per Car	1.52	1.53	1.55	1.57	1.59	1.60	1.61
Total Oil Changes	426	431	440	434	404	377	360
CAGR		0.6%	0.4%	(0.3%)	(1.4%)	(1.3%)	(0.9%)

- Our underperformance case pushes the critical 35% of sales threshold to 2035
- Market Saturation is 50% largely due to the high number of buyers for which EVs are not practical
- Our primary discovery suggested that we are seeing the early signs of this underperformance
- In this case, VVV should see limited harm, as the number of oil changes stagnates until ~2045, and growth can still occur due to industry fragmentation

Store Count Build

1

We used a store count build to project revenue

		2018A	2019A	2020A	2021A	2022A	2023A	2024E	2025E	2026E	2027E	2028E	2029E	2030E
Con	pany Owned Store Count													
Begi	ninning of Period Store Count	384	462	519	584	719	790	876	966	1056	1148	1248	1340	1428
Ope	ned Stores	17	28	36	30	34		37	37	38	42	38	36	34
Aqu	ired Stores	3	24	12	57	33		37	37	38	42	38	36	34
Con	version between Franchised and Company Operate	58	5	17	50	4		16	16	16	16	16	16	16
Clos	ed Stores				(2)									
20.	23 Total New Owned Stores						86							
End	of Period Stores	462	519	584	719	790	876	966	1056	1148	1248	1340	1428	1512
Peri	od New Stores		57	65	135	71	86	90	90	92	100	92	88	84
Fran	chised Store Count													
Beg	nning of Period Store Count	743	780	866	878	875	925	976	1036	1130	1244	1394	1508	1622
Ope	ned Stores	28	65	36	39	60		38	55	65	83	65	65	65
Acq	uired Stores	73	31		12			38	55	65	83	65	65	65
Conversion between Franchised and Company Operate		(58)	(5)	(17)	(50)	(4)		(16)	(16)	(16)	(16)	(16)	(16)	(16)
Clos	ed Stores	(6)	(5)	(7)	(4)	(6)								
20.	23 Total New Franchised Stores						51							
End	of Period Stores	780	866	878	875	925	976	2 1036	1130	1244	1394	1508	1622	1736
Peri	od New Stores		86	12	(3)	50	51	60	94	114	150	114	114	114
Tota	l Beginning of Period Stores	1127	1242	1385	1462	1594	1715	1852	2002	2186	2392	2642	2848	3050
Tota	l End of Period Stores	1242	1385	1462	1594	1715	1852	2002	2186	2392	2642	3 2848	3050	3248
Net	New Stores	115	143	77	132	121	137	150	184	206	250	206	202	198
Gr	owth %	10%	12%	6%	9%	8%	8%	8%	9%	9%	10%	8%	7%	6%
	1				2							3		
	VVV has a well-developed toolkit for store growth Enables balanced growth with a diversified portfolio of store across markets		Ma	anagem develop vned sto	ent plan oment of ores usir capita	s to incr compai ig divest l	ease ıy iture			'30 co att exper	and '31 ommand ention a nditure t the	Senior I I manag nd slow owards decade	Notes wil ement capital the end	l



Sensitivity Analysis

Valvoline

Key variable sensitivity tables for implied share price

			WA	CC		
		6.886%	7.886%	8.886%	9.886%	10.886%
ple	8x	\$77	\$57	\$45	\$38	\$32
ulti	10x	\$83	\$62	\$50	\$42	\$36
Ξ	12x	\$88	\$67	\$55	\$47	\$41
Exi	14x	\$93	\$72	\$59	\$51	\$45
	16x	\$98	\$77	\$64	\$55	\$49

Perpetuity Growth Rate

		3.0%	3.5%	4.0%	4.5%	5.0%
ple	8x	\$38	\$40	\$42	\$45	\$49
ulti	10x	\$43	\$45	\$47	\$50	\$54
Ξ	12x	\$48	\$49	\$52	\$55	\$58
Ĕ	14x	\$52	\$54	\$56	\$59	\$63
	16x	\$57	\$59	\$61	\$64	\$68

WACC

		6.886%	7.886%	8.886%	9.886%	10.886%
ate	3.0%	\$71	\$60	\$52	\$46	\$42
hВ	3.5%	\$76	\$63	\$54	\$48	\$43
¥	4.0%	\$83	\$67	\$56	\$49	\$44
5 D	4.5%	\$93	\$72	\$59	\$51	\$45
	5.0%	\$108	\$78	\$63	\$53	\$46

PGR vs. Exit Multiple

- Implied share price is relatively more sensitivity to exit multiple than PGR
- Even extremely conservative values imply some upside

WACC vs. Exit Multiple

- WACC has a relatively larger impact on implied share price as compared to exit multiple
- Aggressive exit multiples reveal a pathway to extreme upside

WACC vs. PGR

- WACC has a relatively larger impact on implied share price as compared to exit multiple
- · Almost all cases imply some upside

Perpetuity

WACC



WACC Calculation (CAPM)

Capital Structure								
	Rate	Maturity	Amount	Px	YTM	Market Value		
RCF	7.433%	Apr-24		100.00	7.286%			
Term Loan	7.069%	Apr-24	\$463	100.00	6.936%	\$463		
2031 Notes	3.625%	Jun-31	\$535	85.43	6.100%	\$457		
2030 Notes	4.250%	Feb-30	\$600	99.29	4.384%	\$596		

Cost of Debt	
Pre Tax Cost of Debt	5.698%
Tax Rate	20%
After Tax Cost of Debt	4.558%

Cost of Equity	
Risk Free Rate	4.120%
Beta	1.38
Market Risk Premium	5.000%
Cost of Equity	11.020%

WACC	
Debt to Total Capitalization	33.03%
Equity to Total Capitalization	66.97%
WACC	8.886%

DCF Output (Base)



Our base case uses conservative assumptions largely in-line with management guidance

	FYE Sep	FYE Sept. 30		FYE Sept. 30				
—	2022A	2023A	2024E	2025E	2026E	2027E	2028E	2029E
Revenue	\$1,236	\$1,444	\$1,704	\$1,984	\$2,300	\$2,660	\$3,028	\$3,408
Growth %		17%	18%	16%	16%	16%	14%	13%
Expenses								
COGS	\$760	\$899	\$1,056	\$1,230	\$1,426	\$1,649	\$1,877	\$2,113
Gross Profit	\$476	\$545	\$647	\$754	\$874	\$1,011	\$1,150	\$1,295
Gross Margin %	39%	38%	38%	38%	38%	38%	38%	38%
SG&A	252	237	290	337	391	452	515	579
Other Operating Expense (Income)	11	33	9	10	11	13	15	17
Operating Income (EBIT)	\$213	\$275	\$349	\$407	\$471	\$545	\$621	\$699
EBIT Margin %	17.3%	19.0%	20.5%	20.5%	20.5%	20.5%	20.5%	20.5%
Income Tax Expense	35	37	51	60	69	80	91	102
NOPAT	\$179	\$238	\$298	\$347	\$402	\$466	\$530	\$596
Cash Flow								
Plus: D&A	\$71	\$89	\$102	\$119	\$138	\$160	\$182	\$204
Discretionary Cash Flow	\$250	\$327	\$400	\$466	\$540	\$625	\$711	\$801
Less: ΔNWC		70	(91)	10	12	13	14	14
Less: CAPEX	(132)	(181)	(221)	(258)	(322)	(399)	(424)	(443)
Free Cash Flow	\$118	\$216	\$88	\$219	\$230	\$240	\$301	\$372
				149%	5%	4%	26%	23%
WACC	8.886%							
Discount Period			0.75	1.75	2.75	3.75	4.75	5.75
Disount Factor			0.938	0.862	0.791	0.727	0.667	0.613
Present Value of Free Cash Flow			\$82	\$188	\$182	\$174	\$201	\$228

Perpetuity Growth Method	
Cumulative Value of Present FCF	\$1,056
Terminal Value	
Long Term Growth Rate	4.0%
Final Year FCF	\$459
Terminal Value	\$9,402
Present Value of Terminal Value	\$5,763
% of Enterprise Value	85%
Enterprise Value	\$6,819

PGR Implied Equity and Share Value					
Enterprise Value	\$6,819				
Less: Total Debt	(2,074)				
Plus: Cash & Cash Equivalents	764				
Implied Equity Value	\$5,509				
Shares Outstanding	130.7				
Implied Share Price	\$42				

Exit Multiple Method							
Cumulative Value of Present FCF	\$1,056						
Terminal Value							
Terminal Year EBITDA	\$903						
Exit Multiple	12x						
Terminal Value	\$10,838						
Present Value of Terminal Value	\$6,643						
% of Enterprise Value	86%						
Enterprise Value	\$7,699						

	ć 40					
Shares Outstanding	130.7					
Implied Equity Value	\$6,390					
Plus: Cash & Cash Equivalents	764					
Less: Total Debt	(2,074)					
Enterprise Value	\$7,699					
Exit Multiple Implied Equity and Share Value						

DCF Output (Downside)



Our downside case assumes failure to realize growth plans, slowing sales growth, and terminal value depression

	FYE Sept	t. 30			FYE Sept. 30			
—	2022A	2023A	2024E	2025E	2026E	2027E	2028E	2029E
Revenue	\$1,236	\$1,444	\$1,590	\$1,732	\$1,900	\$2,071	\$2,215	\$2,366
Growth %		17%	10%	9%	10%	9%	7%	7%
Expenses								
COGS	\$760	\$899	\$986	\$1,074	\$1,178	\$1,284	\$1,373	\$1,467
Gross Profit	\$476	\$545	\$604	\$658	\$722	\$787	\$842	\$899
Gross Margin %	39%	38%	38%	38%	38%	38%	38%	38%
SG&A	252	237	270	294	323	352	376	402
Other Operating Expense (Income)	11	33	8	9	10	10	11	12
Operating Income (EBIT)	\$213	\$275	\$326	\$355	\$390	\$425	\$454	\$485
EBIT Margin %	17.3%	19.0%	20.5%	20.5%	20.5%	20.5%	20.5%	20.5%
Income Tax Expense	35	37	64	69	76	83	89	95
NOPAT	\$179	\$238	\$262	\$286	\$314	\$342	\$365	\$390
Cash Flow								
Plus: D&A	\$71	\$89	\$95	\$104	\$114	\$124	\$133	\$142
Discretionary Cash Flow	\$250	\$327	\$358	\$390	\$428	\$466	\$498	\$532
Less: ΔNWC		70	(95)	5	6	6	5	6
Less: CAPEX	(132)	(181)	(191)	(208)	(228)	(249)	(221)	(237)
Free Cash Flow	\$118	\$216	\$72	\$187	\$206	\$224	\$282	\$301
				161%	10%	9%	26%	7%
WACC	8.886%							
Discount Period			0.75	1.75	2.75	3.75	4.75	5.75
Disount Factor			0.938	0.862	0.791	0.727	0.667	0.613
Present Value of Free Cash Flow			\$67	\$161	\$163	\$163	\$188	\$185

Exit Multiple Method	
Cumulative Value of Present FCF	\$927
Terminal Value	
Terminal Year EBITDA	\$627
Exit Multiple	10x
Terminal Value	\$6,269
Present Value of Terminal Value	\$3,842
% of Enterprise Value	81%
Enterprise Value	\$4,769

Exit Multiple Implied Equity and Share Value						
Enterprise Value	\$4,769					
Less: Total Debt	(2,074)					
Plus: Cash & Cash Equivalents	764					
Implied Equity Value	\$3,460					
Shares Outstanding	130.7					
Implied Share Price	\$26					

Perpetuity Growth Method	
Cumulative Value of Present FCF	\$927
Terminal Value	
Long Term Growth Rate	3.0%
Final Year FCF	\$322
Terminal Value	\$5,467
Present Value of Terminal Value	\$3,351
% of Enterprise Value	78%
Enterprise Value	\$4,278

\$ 2,968 130.7
\$2,968
764
(2,074)
\$4,278
e

DCF Output (Upside)



Our upside case assumes successful growth and terminal value recovery from EV underperformance

	FYE Sept. 30				FYE Sep	ot. 30		
—	2022A	2023A	2024E	2025E	2026E	2027E	2028E	2029E
Revenue	\$1,236	\$1,444	\$1,717	\$2,027	\$2,383	\$2,804	\$3,260	\$3,764
Growth %		17%	19%	18%	18%	18%	16%	15%
Expenses								
COGS	\$760	\$899	\$1,065	\$1,257	\$1,477	\$1,739	\$2,021	\$2,333
Gross Profit	\$476	\$545	\$653	\$770	\$905	\$1,066	\$1,239	\$1,430
Gross Margin %	39%	38%	38%	38%	38%	38%	38%	38%
SG&A	252	237	292	345	405	477	554	640
Other Operating Expense (Income)	11	33	9	10	12	14	16	19
Operating Income (EBIT)	\$213	\$275	\$352	\$416	\$488	\$575	\$668	\$772
EBIT Margin %	17.3%	19.0%	20.5%	20.5%	20.5%	20.5%	20.5%	20.5%
Income Tax Expense	35	37	52	61	71	84	98	113
NOPAT	\$179	\$238	\$301	\$355	\$417	\$491	\$570	\$659
Cash Flow								
Plus: D&A	\$71	\$89	\$103	\$122	\$143	\$168	\$196	\$226
Discretionary Cash Flow	\$250	\$327	\$404	\$476	\$560	\$659	\$766	\$884
Less: ΔNWC		70	(91)	12	13	16	17	19
Less: CAPEX	(132)	(181)	(223)	(264)	(334)	(421)	(456)	(489)
Free Cash Flow	\$118	\$216	\$90	\$224	\$240	\$254	\$327	\$414
				150%	7%	6%	29%	27%
WACC	8.886%							
Discount Period			0.75	1.75	2.75	3.75	4.75	5.75
Disount Factor			0.938	0.862	0.791	0.727	0.667	0.613
Present Value of Free Cash Flow			\$84	\$193	\$190	\$185	\$218	\$254

Perpetuity Growth Method	
Cumulative Value of Present FCF	\$1,123
Terminal Value	
Long Term Growth Rate	4.5%
Final Year FCF	\$525
Terminal Value	\$11,960
Present Value of Terminal Value	\$7,331
% of Enterprise Value	87%
Enterprise Value	\$8,454

Implied Share Price	\$55	
Shares Outstanding	130.7	
Implied Equity Value	\$7,145	
Plus: Cash & Cash Equivalents	764	
Less: Total Debt	(2,074)	
Enterprise Value	\$8,454	
PGR Implied Equity and Share Value		

Exit Multiple Method	
Cumulative Value of Present FCF	\$1,123
Terminal Value	
Terminal Year EBITDA	\$997
Exit Multiple	14x
Terminal Value	\$13,963
Present Value of Terminal Value	\$8,558
% of Enterprise Value	88%
Enterprise Value	\$9,682

Implied Share Price	\$64
Shares Outstanding	130.7
Implied Equity Value	\$8,372
Plus: Cash & Cash Equivalents	764
Less: Total Debt	(2,074)
Enterprise Value	\$9,682
Exit Multiple Implied Equity and Share Value	

SSS Growth Behemoth



VVV has grown SSS for 17 consecutive years, demonstrating the power of scale and differentiated customer experience



Jake Lestan, Senior Director for Marketing and Consumer Engagement

- "We are targeting anybody with a heartbeat and a car" Broad range, narrowed focus
- "Value proposition of quick, easy, trusted" Excel in key areas consumers care about

SSS Growth Drivers



Franchises Compliment Owned Store Growth Valvoline

Valvoline's franchises come in a variety of different forms and offer both the company and the franchisees key benefits



INVESTMENT CLUB