

Into Overdrive

As a rebuilding of America's core infrastructure and energy transition is underway, we continue to favor overlooked 'picks and shovels' companies with solid fundamentals trading at attractive valuations. Allison Transmission Holdings Inc (ALSN: \$58/share), the world's leading manufacturer of automatic transmissions and commercial propulsion systems, is this week's Long Idea.

Allison Transmission presents quality risk/reward given the company's:

- position to benefit from higher fiscal and infrastructure spending,
- strong cash flow generation,
- adaptability to the electric vehicle (EV) market, and
- attractive valuation.

Electric Before It Was Cool

Allison Transmission has been active in the electrified propulsion systems sector for decades. In 2003, the company introduced its H 40/50 EP[™] hybrid system for transit buses. Since then, over 9,500 Allison electric propulsion systems have been delivered globally. The systems have been adopted in over 230 cities worldwide and have operated for 3.5 billion miles. Several transportation authorities have chosen to adopt Allison's systems. The Santa Clara Valley Transportation Authority and the Indianapolis Public Transportation Corporation have incorporated buses equipped with the Allison eGen Flex system into their fleets. Similarly, the Metropolitan Evansville (Indiana) Transit System and Oshkosh's (Wisconsin) GO Transit have also opted for Allison's offerings.

To support its electric vehicle initiatives, Allison has established dedicated infrastructure for the development, testing, and manufacturing of electric vehicle technologies. This includes an electric axle manufacturing facility in Auburn Hills, Michigan and a Vehicle Electrification + Environmental Test Center in its Innovation Center, a 96,000-square-foot facility in Indianapolis. This state-of-the-art center focuses on advancing commercial vehicle technology and consolidating engineering teams to promote faster and more efficient product development.

Leading with Hybrid Technologies

More recently, the eGen Flex propulsion system has seen increased adoption by municipalities. The system has achieved over \$1.5 billion in sales and has enabled hybrid buses to run in engine-off mode for more than 50% of operating times.

One key feature of this system is its geofencing technology, which allows buses to switch between conventional and electric-only operation in pedestrian and zero-emission zones.

The eGen Flex system is built on an existing hybrid platform, and as a result, it retains 85% of the drive parts, which simplifies the transition for fleet operators.

With a projected compound annual growth rate (CAGR) of 29.5% from 2021 to 2031, the electric bus market stands to drive significant growth for Allison. See Figure 1.



Figure 1: Global Electric Bus Market Forecast: 2021 – 2031



Global Electric Bus Market

Continuing to Lean Into Electric Technologies

Allison has acquired companies like Vantage Power and AxleTech's electric vehicle systems division. These acquisitions have expanded Allison's product range and integrated more advanced capabilities.

Given the current emphasis on infrastructure, climate awareness and increased municipal spending, we expect Allison Transmission to continue to benefit from these tailwinds. With municipal spending driving 30-40% of Allison's North America On-Highway (the company's largest segment) market volume, the company has a predictable revenue stream in this sector.

Solid Fundamentals

Allison Transmission has grown both revenue and net operating profit after tax (<u>NOPAT</u>) by 5% compounded annually since 2017. See Figure 2. The company's NOPAT margin remained unchanged from at 23% from 2017 the trailing twelve months (TTM), while <u>invested capital turns</u> increased from 0.6 to 0.7 over the same time. Improved invested capital turns drive the company's return on invested capital (<u>ROIC</u>) from 14% in 2017 to 17% in the TTM.



Figure 2: Allison Transmission's Revenue and NOPAT: 2015 – TTM





Reliable Cash Flows Support Dividends

Allison Transmission has generated positive free cash flow (<u>FCF</u>) every year since 2012 (the first year that we have data for). More recently, the company has leveraged such cash flow and paid \$524 million (10% of current market cap) in cumulative dividends since 2017. Shares currently offer a 1.6% annualized yield.

Since 2017, Allison Transmission generated \$3.5 billion (44% of <u>enterprise value</u>) in free cash flow (<u>FCF</u>). See Figure 3.



Figure 3: Allison Transmission's Free Cash Flow and Dividends Paid Since 2017

Sources: New Constructs, LLC and company filings

Not only has Allison Transmission returned capital to shareholders through dividends, but the company has also been repurchasing shares as well. Allison spent \$137 million in 1H23 on share buybacks, and over \$3 billion since 2017. The company has repurchased 61% of shares outstanding since its IPO. At the 2022 share repurchase rate, the total yield to shareholders rises to 3.4%.





Growth In The Pipeline

Though Allison has been reliable in generating free cash flow and returning capital to shareholders, revenue growth has not been inspiring. However, a confluence of macro tailwinds and new initiatives are driving an encouraging pipeline of growth in Allison's future.

One such opportunity is the penetration of the Wide Body Mining Dump market with Allison's 4000 Series[™] On-Highway transmission. Already released in all 10 OEMs operating in this space, Allison has experienced a swift rise in market share, especially in the Chinese domestic and global export markets. From 0% market share in 2022, Allison has <u>climbed</u> to approximately 10% in just 18 months, with projections pointing to 25% market share within 3-5 years. This growth translates to a potential \$100M annual revenue boost.

In the oil sector, Allison's Frac Tran, specifically tailored for hydraulic fracturing applications, presents another growth avenue. Launched in 2021, it is undergoing tests across various oilfield fleets in the US. The full growth potential is expected to be realized in 4-5 years, which would create another \$100M in annual revenue.

Furthermore, the Class 8 Day Cab and Regional Haul Tractor Market is set to benefit from Allison's 4000 Series[™] and 3414 Regional Haul Series[™] transmissions. These systems, which outperform competitors by offering 25% faster acceleration and up to 8% fuel economy improvement, have garnered partnerships with top OEMs, including Daimler and Volvo. The burgeoning infrastructure and construction sectors further amplify this \$100M annual revenue prospect, with production expected to increase in the coming years. See Figure 4.

Figure 4: Annual Production of Class 8 Trucks: 2016 – 2026e



Class 8 Truck Production Rising

Sources: New Constructs, LLC and company filings

Lastly, the defense sector offers vast potential. Allison is primed to benefit from escalating global defense spending driven by unsteady geopolitical dynamics, the conflict in Ukraine, and U.S. Department of Defense (DoD) modernization agendas. Building on its enduring relationship with the U.S. DoD, Allison envisions growth through the sale of existing products to international allies, strengthening bonds with global defense OEMs, and the global interest in their new products. This segment also presents a \$100M annual revenue opportunity.

Leading Profits

Allison Transmission's geographic and product diversification translates into competitive advantages that we can quantify. Over the TTM, the company's ROIC and NOPAT margin are the highest amongst its peers, which include Cummins Inc. (CMI) and Johnson Controls (JCI). See Figure 5.



Figure 5: Allison Transmission's Profitability Vs. Peers: TTM

Tick	er Company Name	NOPAT Margin	IC Turns	ROIC
ALS	N Allison Transmission Holdings I	nc 23%	0.7	17%
CMI	Cummins Inc.	8%	1.4	12%
APT	V Aptiv, PLC	7%	1.2	8%
JCI	Johnson Controls International	9%	0.8	7%
MGA	A Magna International Inc.	4%	2.0	7%

Sources: New Constructs, LLC and company filings

What's Not Working

Higher Labor Costs Loom

Though NOPAT margins have been rising, from 19.6% in 2020 to 23.3% in the trailing twelve months, Allison's CFO Fred Bohley signaled that the company is concerned with rising costs, specifically labor. Not only that, the company's collective bargaining agreement with the United Automobile, Aerospace, and Agricultural Workers of America (UAW) is set to expire in November 2023. Though no information about a renewed agreement is known to us at this time, given the UAW's ongoing strike within the automotive industry, as well as the CFO's comments, it is safe to expect that labor costs will represent a bigger piece of the pie in the coming future.

However, with an 18% year-over-year increase in revenue in 2Q23, the company has been efficient at both raising prices and taking market share. From the earnings call: "as costs continue to go up, we definitely have to manage them from a price cost standpoint but it positions us [...] (to) deliver a greater value proposition to both further increase market share as well as get price". In other words, labor costs will rise and pressure margins, but we think this well-run company will continue to find a way to grow profits.

Valuation Provides Upside

Shares Have 31% Upside at Current Price

At its current price of \$58/share, Allison Transmission has a PEBV ratio of 0.6, which means the market expects profits to permanently fall 40% from current levels. Below, we use our <u>reverse discounted cash flow (DCF)</u> model to further quantify how low the expectations baked into Allison Transmission's stock price are. We also present the upside potential in the stock if the company grows NOPAT below historical growth rates.

DCF Scenario 1: to Justify the Current Stock Price

We assume Allison Transmission's:

- NOPAT margin falls to 16.5% (well below the five-year average NOPAT margin of 22%) from 2023 to 2032 and
- revenue grows just 1% compounded annually (vs. 15% in the TTM) through 2032

In this <u>scenario</u>, Allison Transmission's NOPAT would fall 2% compounded annually through 2032 and the stock would be worth \$58/share today – equal to the current price. For reference, Allison Transmission has grown NOPAT by 5% compounded annually since 2012.

DCF Scenario 2: Shares Have 31%+ Upside Even if Growth Slows

If we instead assume Allison Transmission's:

- NOPAT margin falls to 18% (lowest since 2016) from 2023 to 2032,
- revenue grows at consensus estimates in 2023 (11%) and 2024 (2%), and
- revenue grows 1% compounded annually from 2025 to 2032 (versus 5% compounded annually since 2017), then

Allison Transmission would be worth at least <u>\$76/share today</u> – a 31% upside to the current price. In this scenario, Allison Transmission's NOPAT in 2032 is about the same as its 2022 NOPAT.

Should Allison Transmission grow profits more in line with historical levels, the stock has even more upside. Figure 6 compares Allison Transmission's historical NOPAT to the NOPAT implied in each of the above DCF scenarios.



LONG IDEA 10/5/23



This article was originally published on October 4, 2023.

Disclosure: David Trainer, Kyle Guske II, Italo Mendonca, and Hakan Salt receive no compensation to write about any specific stock, style, or theme.

Questions on this report or others? Join our <u>Society of Intelligent Investors</u> and connect with us directly.



It's Official: We Offer the Best Fundamental Data in the World

Many firms claim their research is superior, but none of them can prove it with independent studies from highlyrespected institutions as we can. Three different papers from both the public and private sectors show:

- 1. Legacy fundamental datasets suffer from significant inaccuracies, omissions, and biases.
- 2. Only our "novel database" enables investors to overcome these flaws and apply <u>reliable</u> fundamental data in their research.
- 3. Our proprietary measures of <u>Core Earnings</u> and <u>Earnings Distortion</u> materially improve stock picking and forecasting of profits.

Best Fundamental Data in the World

Forthcoming in <u>The Journal of Financial Economics</u>, a top peer-reviewed journal, <u>Core Earnings: New Data &</u> <u>Evidence</u> proves our Robo-Analyst technology overcomes material shortcomings in legacy firms' data collection processes to provide superior <u>fundamental data</u>, <u>earnings</u> models, and <u>research</u>. More <u>details</u>.

Key quotes from the paper:

- "[New Constructs'] Total Adjustments differs significantly from the items identified and excluded from Compustat's adjusted earnings measures. For example... 50% to 70% of the variation in Total Adjustments is not explained by S&P Global's (SPGI) Adjustments individually." – pp. 14, 1st para.
- "A final source of differences [between New Constructs' and S&P Global's data] is due to data collection oversights...we identified cases where Compustat did not collect information relating to firms' income that is useful in assessing core earnings." – pp. 16, 2nd para.

Superior Models

A top accounting firm features the superiority of our ROIC, NOPAT and Invested Capital research to Capital IQ & Bloomberg's in <u>Getting ROIC Right</u>. See the <u>Appendix</u> for direct comparison details.

Key quotes from the paper:

- "...an accurate calculation of ROIC requires more diligence than often occurs in some of the common, off-the-shelf ROIC calculations. Only by scouring the footnotes and the MD&A [as New Constructs does] can investors get an accurate calculation of ROIC." – pp. 8, 5th para.
- "The majority of the difference...comes from New Constructs' machine learning approach, which leverages technology to calculate ROIC by applying accounting adjustments that may be buried deeply in the footnotes across thousands of companies." – pp. 4, 2nd para.

Superior Stock Ratings

Robo-Analysts' stock ratings outperform those from human analysts as shown in this <u>paper</u> from Indiana's Kelley School of Business. Bloomberg features the paper <u>here</u>.

Key quotes from the paper:

- "the portfolios formed following the buy recommendations of Robo-Analysts earn abnormal returns that are statistically and economically significant." – pp. 6, 3rd para.
- "Our results ultimately suggest that Robo-Analysts are a valuable, alternative information intermediary to traditional sell-side analysts." pp. 20, 3rd para.

Our mission is to provide the best fundamental analysis of public and private businesses in the world and make it affordable for all investors, not just Wall Street insiders.

We believe every investor deserves to know the whole truth about the profitability and valuation of any company they consider for investment. More details on our cutting-edge technology and how we use it are <u>here</u>.





DISCLOSURES

New Constructs®, LLC (together with any subsidiaries and/or affiliates, "New Constructs") is an independent organization with no management ties to the companies it covers. None of the members of New Constructs' management team or the management team of any New Constructs' affiliate holds a seat on the Board of Directors of any of the companies New Constructs covers. New Constructs does not perform any investment or merchant banking functions and does not operate a trading desk.

New Constructs' Stock Ownership Policy prevents any of its employees or managers from engaging in Insider Trading and restricts any trading whereby an employee may exploit inside information regarding our stock research. In addition, employees and managers of the company are bound by a code of ethics that restricts them from purchasing or selling a security that they know or should have known was under consideration for inclusion in a New Constructs report nor may they purchase or sell a security for the first two days after New Constructs issues a report on that security.

DISCLAIMERS

The information and opinions presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or solicitation of an offer to buy or sell securities or other financial instruments. New Constructs has not taken any steps to ensure that the securities referred to in this report are suitable for any particular investor and nothing in this report constitutes investment, legal, accounting or tax advice. This report includes general information that does not take into account your individual circumstance, financial situation or needs, nor does it represent a personal recommendation to you. The investments or services contained or referred to in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about any such investments or investment services.

Information and opinions presented in this report have been obtained or derived from sources believed by New Constructs to be reliable, but New Constructs makes no representation as to their accuracy, authority, usefulness, reliability, timeliness or completeness. New Constructs accepts no liability for loss arising from the use of the information presented in this report, and New Constructs makes no warranty as to results that may be obtained from the information presented in this report. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information and opinions contained in this report reflect a judgment at its original date of publication by New Constructs and are subject to change without notice. New Constructs may have issued, and may in the future issue, other reports that are inconsistent with, and reach different conclusions from, the information presented in this report. Those reports reflect the different assumptions, views and analytical methods of the analysts who prepared them and New Constructs is under no obligation to insure that such other reports are brought to the attention of any recipient of this report.

New Constructs' reports are intended for distribution to its professional and institutional investor customers. Recipients who are not professionals or institutional investor customers of New Constructs should seek the advice of their independent financial advisor prior to making any investment decision or for any necessary explanation of its contents.

This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would be subject New Constructs to any registration or licensing requirement within such jurisdiction.

This report may provide the addresses of websites. Except to the extent to which the report refers to New Constructs own website material, New Constructs has not reviewed the linked site and takes no responsibility for the content therein. Such address or hyperlink (including addresses or hyperlinks to New Constructs own website material) is provided solely for your convenience and the information and content of the linked site do not in any way form part of this report. Accessing such websites or following such hyperlink through this report shall be at your own risk.

All material in this report is the property of, and under copyright, of New Constructs. None of the contents, nor any copy of it, may be altered in any way, copied, or distributed or transmitted to any other party without the prior express written consent of New Constructs. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of New Constructs. Copyright New Constructs, LLC 2003 through the present date. All rights reserved.