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UPCOMING EVENTS

September 16

September 18

September 19-20

September 25

September 26

October 1

October 8

October 9

October 18

October 22

18th Annual Golf Outing

Wine Down Wednesday

Michigan Private Equity Conference

Women's Forum: Coffee & Connections

Sporting Clays Social & Networking Event

Navigating Michigan's Legislative Landscape

New Member Mixer

Oktoberfest

40th Anniversary Celebration

NextGen Fall Speed Networking

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Upcoming Events

- **Sept. 11** Coffee Break with Plante Moran Supplier EV Transition Challenges: Volume Volatility & Capital Repayment (free)
- **Sept. 17** Nexteer Webinar: Steer-By-Wire + Software Solutions Enabling Advanced Safety, Performance & Convenience for Future Mobility (free)
- **Sept. 26** Navigating the Future: Corporate Venture Capital in the Automotive Industry (free)
- Oct. 15 Webinar: Impact of AI in the Automotive Transformation



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2024 Automotive Update









Laurie Harbour

Steven Wybo

Mike Wall

Clay Vanderpool

Laurie Harbour: Partner, Manufacturing, Retail & Distribution - Wipfli

Steven Wybo: Senior Managing Director - Riveron

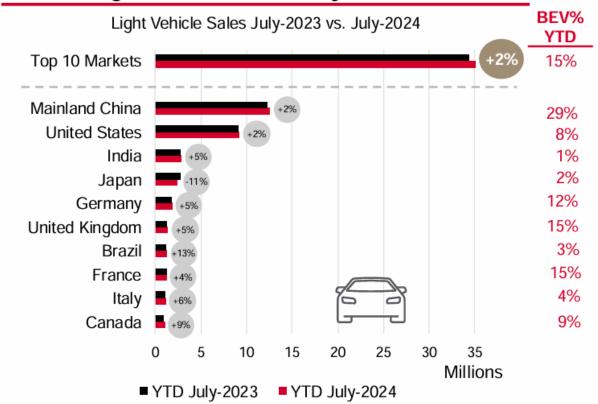
Mike Wall: Executive Director, Automotive Analysis - S&P Global

Clay Vanderpool (Moderator): Senior Vice President - PNC

Total Industry Sales Volume | Sales Growth is Slowing Relative to 2023

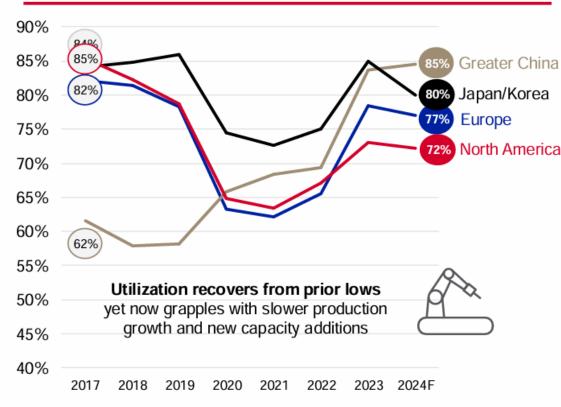
Early 2024 sales supported by China/India and larger developed markets, yet recent results have underperformed; Top 10 market sales up 2% through July 2024; vehicle production & utilization shifts to more demand driven realities





Data compiled September 3, 2024

Light Vehicle Production: Capacity Utilization

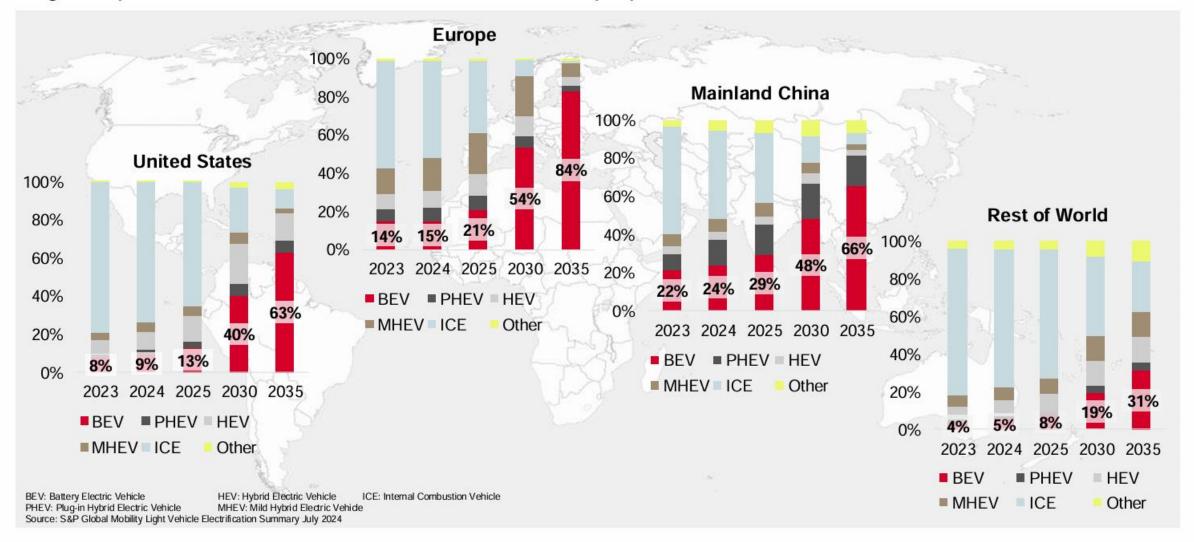


Source: S&P Global Mobility - Vehicle Plant Capacity August 2024

^{*} Note: YTD July-2023 vs. YTD July-2024 (Includes forecasted data) Source: S&P Global Mobility – Global Auto Tracker

Light Vehicle Electrification Trends by Region | Realignment of Expectations Continues...

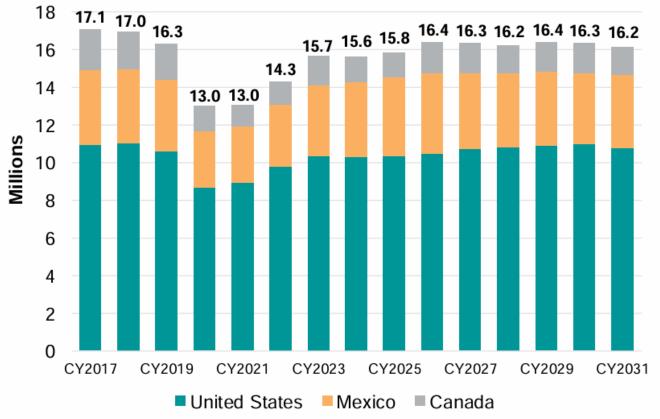
Regional preferences and incentives result in a varied propulsion mix; Watch the model count!





North America: Short-term Outlook Offers a Mix of Strong Competing Influences Inventory tailwind has largely ended with areas of high inventory needing to be addressed; choppy BEV transition and vehicle pricing are lingering concerns

North America Light Vehicle Production Forecast



© 2024 S&P Global

- Theme of inventory tailwind shifts to a focus on inventory discipline; exports stable, not growing as activity focuses on domestic markets; BEVs creating transitory redundancy
- Japanese OEM output influenced by desire to leverage pricing strength and efforts to support domestic utilization; Hyundai/Kia demonstrating similar but more limited impact
- CHIPS Act and Inflation Reduction Act attempt to rebalance supply chains in favor of local production, could provide a boost to on-shore activity – risk of retaliatory legislation possible, fine balance to be achieved
- Renewed interest in Mexico as underutilized ICE capacity leads to BEV investments (GM, Nissan, Stellantis, VW); Chinese localization presents additional opportunity (BYD, Chery, etc.)

Data compiled August 19, 2024

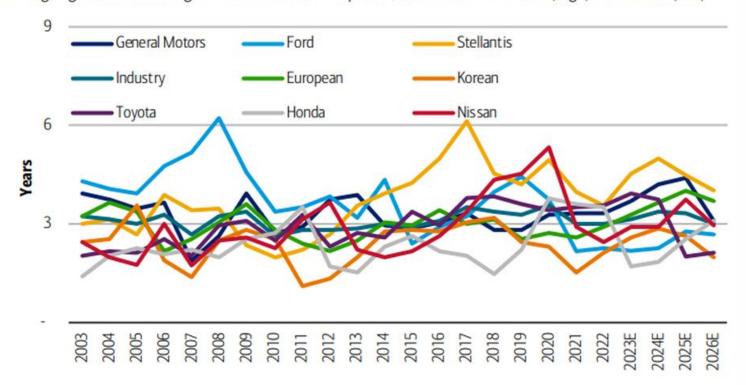
Source: S&P Global Mobility

AGE OF THE MODELS IN THE DEALERSHIP MATTERS

► GM and Stellantis have, and are forecasted to have, aging models on the showroom floor. This will impact consumer buying patterns as new vehicles tend to attract new customers into the brands.

Exhibit 15: Average showroom age by OEM (years) - MY2003-2026E

Average age should converge to 3 over our forecast period, with outliers Stellantis (high) and Korean (low)



Source: BofA Global Research, Based on methodology detailed on page 4

ACCELERATING VEHICLE TRANSITION



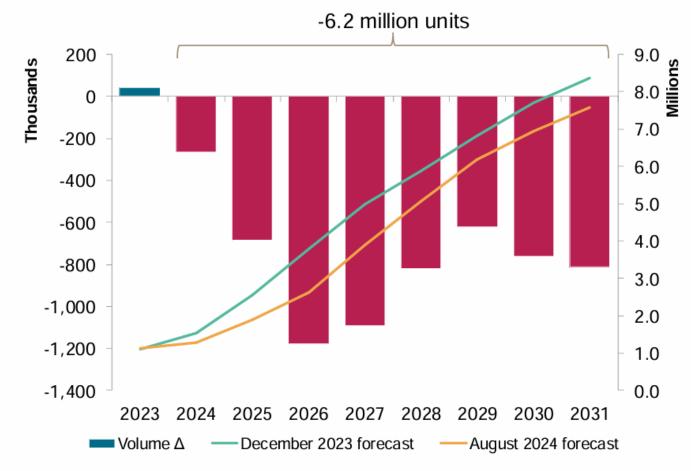
The BEV tidal wave is approaching fast; ICE vs BEV co-existence presents challenges and opportunities.

| | 2021 | 2030 |
|---|-------------------|--|
| Tesla share of US EV Sales | 71% 🔨 | 19% 🏗 |
| California Share of US EV Sales | 36% | 16% |
| Top 90% Brands of US EV Volume | CHEVROLET TESLA W | DONOR OF THE PARTY |
| # of EV Models | 26 | 300+ |
| Charging Infrastructure (Private, Public, Semi-public) | 0.9M | 13.4M |

Source: S&P Global

Deflating the BEV Hype Bubble

North American production: BEVs limited to market physics



Data compiled September 3, 2024 Source: S&P Global Mobility

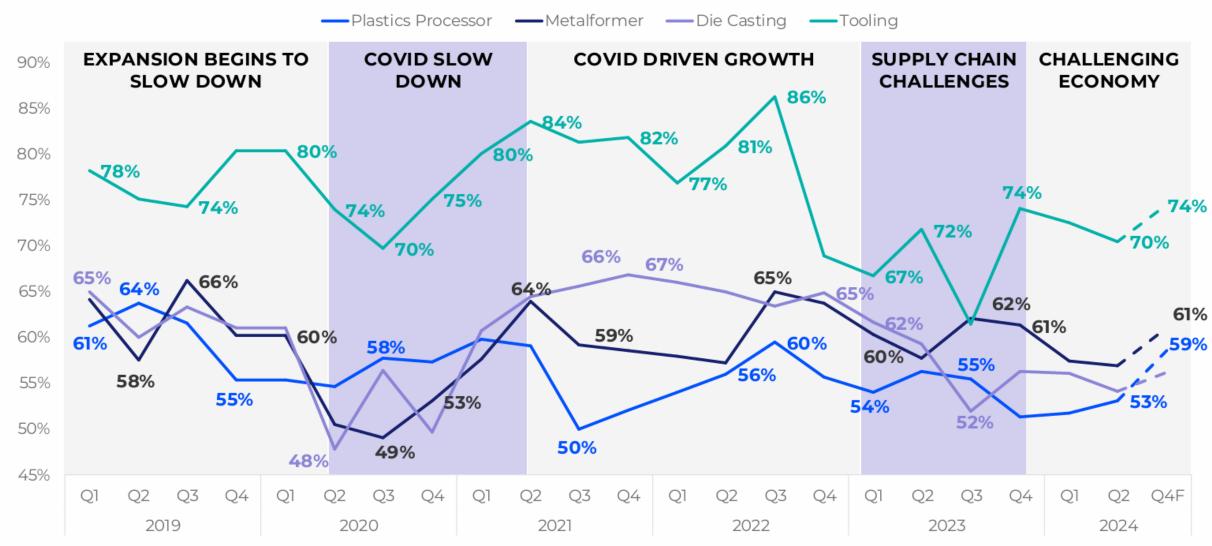
Roughest road still ahead

- Pullback in regulations and product planning
- · Crossing the chasm to mainstream
 - Exhausting pent-up demand; sell on merits
 - Minimize risks and switching costs
- Increasingly needs to solve problems
- · High level of product execution risk
 - Design, price, position, performance
 - Higher forecast bandwidth amid changes
- BEV loyalty, product and brand to be decided
- Hypotheses:
 - BEV consumers shift with latest product
 - Pricing and incentives as motivation
 - Lifecycle curves; front-loaded demand



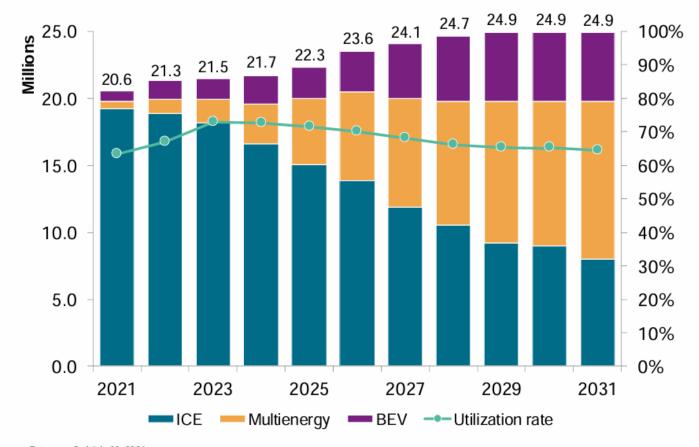
Utilization Varies by Process Type

Capacity Utilization by Process Type



North America Production Capacity

Light vehicle capacity by propulsion type



Data compiled July 26, 2024 Source: S&P Global Mobility

Capacity transformation

- Multienergy as fastest growing segment
 - 580% growth to 47%, largest share in region
 - Multienergy as risk hedge
- BEV plants creating Transitory excess capacity
 - 3.4M or 16% increase to 24.9M
 - Leverage manufacturing benefits for BEV
- Heavy-duty trucks as last ICE remnant
 - ICE capacity from 94% to 33% share
- More dramatic capacity actions post 2030

Utilization issues

- Industrywide underutilization pressures
- ICE utilization declines from 76% to 63%
- BEV increases from 46% to 77%
- Rate of adoption to influence



MOST EVS ARE BIG LOSERS FOR OEMS PROFITS - FOR NOW

- ► The average input costs for EVs vis-à-vis ICE vehicles is approximately \$10k more!
- Component \$CPV for US ICE vehicle vs. EV -\$34,725 in EV Content

| \$USD | Global Traditional ICE Vehicle | US ICE Vehicle - Increased in line with RPU | US Battery Electric Vehicle |
|---------------------------------------|-----------------------------------|---|-----------------------------------|
| Average \$ Revenue per Unit | \$31,922 | \$44,557 | \$55,338 |
| Component Content Cost | | | |
| Steering | \$420 | \$590 | \$590 |
| Passenger Restraints | \$380 | \$530 | \$530 |
| Exhaust | \$335 | \$470 | \$0 |
| Wheels & Tires | \$345 | \$485 | \$485 |
| Body Glass | \$155 | \$215 | \$215 |
| Interior | \$1,480 | \$2,070 | \$2,070 |
| Body & Structural | \$3,325 | \$4,655 | \$5,585 |
| Suspension | \$650 | \$910 | \$910 |
| Axles, Driveshafts, & Components | \$1,060 | \$1,485 | \$1,115 |
| Climate Control & Engine Cooling | \$850 | \$1,190 | \$1,670 |
| Audio & Telematics | \$415 | \$580 | \$815 |
| Fuel System | \$415 | \$580 | \$0 |
| Braking | \$515 | \$720 | \$1,120 |
| Transmission | \$1,695 | \$2,375 | \$0 |
| Engine | \$3,350 | \$4,690 | \$0 |
| Electronics & Electrical | \$2,385 | \$3,340 | \$3,340 |
| Sub-Total | \$17,775 | \$24,885 | \$18,445 |
| EV Electrical Architecture | | | \$1,325 |
| Electric Motor / Drive / Transmission | | | \$1,200 |
| Power Electronics / Other | | | \$1,520 |
| Battery Cell / Pack | | | \$12,235 |
| | | _ | \$34,725 |

SUPPLIERS ARE FACING FINANCIAL HEALTH CONCERNS FROM RISING WAGES, HIGHER INTEREST RATES, AND DECREASING PROFITABILITY



Larger Suppliers:

Larger suppliers have benefited from the "amend and extend" approach by banks on working capital lines, allowing them to navigate liquidity challenges over the past few years. The softer approach by the lenders may be fading in 2024.



Labor Issues:

Higher labor costs influenced by the new UAW contract and heightened worker expectations, are making their way into the supply base. This will impact both union and non-union companies.



Smaller Suppliers:

Small suppliers are exhibiting signs of deteriorating profitability, with impending challenges related to labor inflation yet to be factored in. Low profitability erodes liquidity and leverage metrics and can lead to working capital loan covenant violations.



Higher Interest Rates:

Tightened credit standards and higher interest rates further erode cash, impacting the ability to operate and fund growth

U.S. Prime Rate

8.50% May 2024



Tier 1 Suppliers Squeezed:

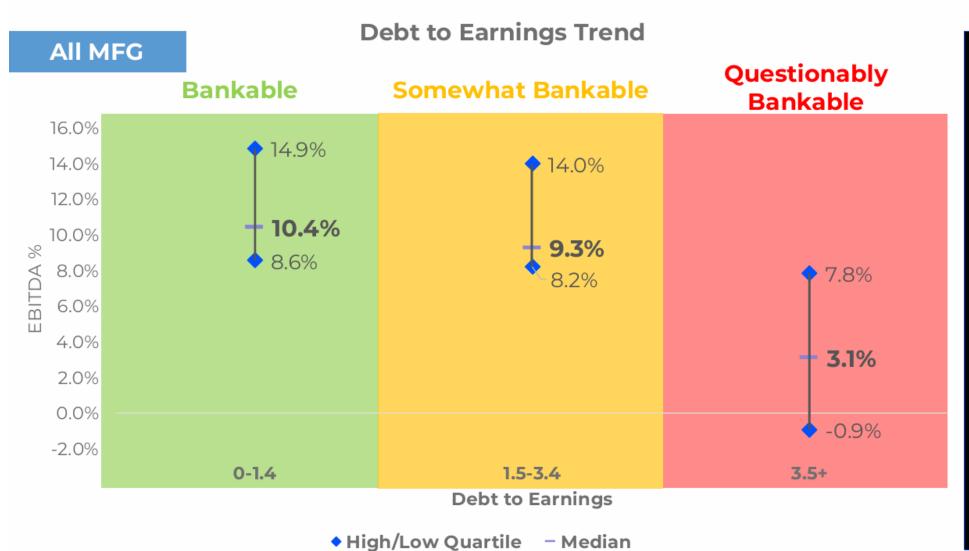
OEMs will seek cost reductions to offset their higher labor costs. With subsupplier's bankability likely to drop in 2024 based on recent data, increased insolvencies seem likely. Thus, Tier 1s will see margin pressure from both OEMs and sub-tiers in 2024.



Transition from ICE to BEV:

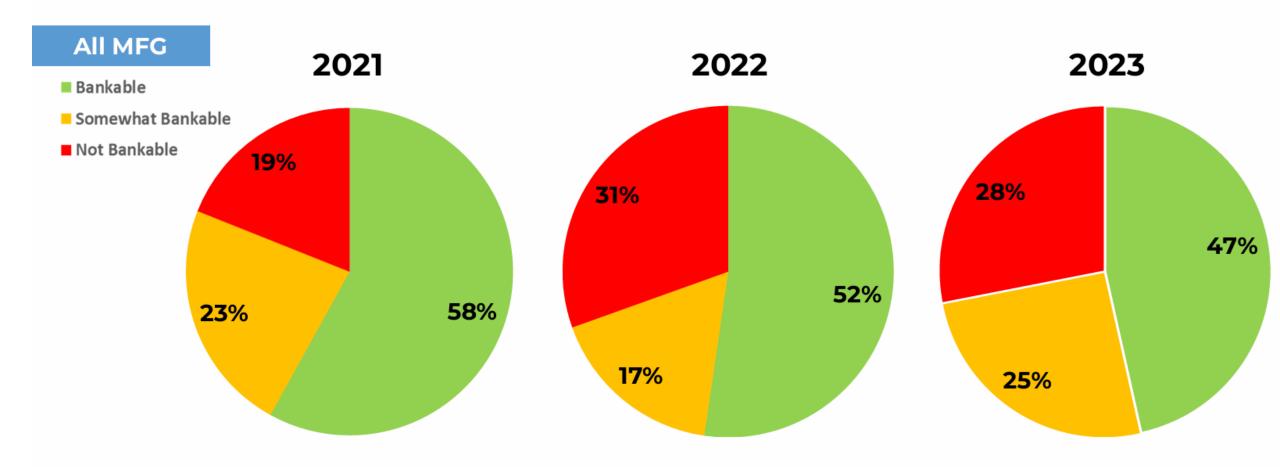
EV optimism is fading and the pace of transition from ICE to BEV is slowing. OEMs have recently delayed EV program launches and taken down volumes on existing programs. This is further straining suppliers who have invested heavily in BEV.

MFG'ers Hunkered Down to Protect Balance Sheet



Wipfli defines any company with a Debtto-Earnings Ratio greater than 3.5 as not bankable. Some manufacturers are faring far better than others. While several companies in the bankable and somewhat bankable groups continued to have strong profit, the higher cost of money made it more difficult to pay down debt in the high-interest rate environment.

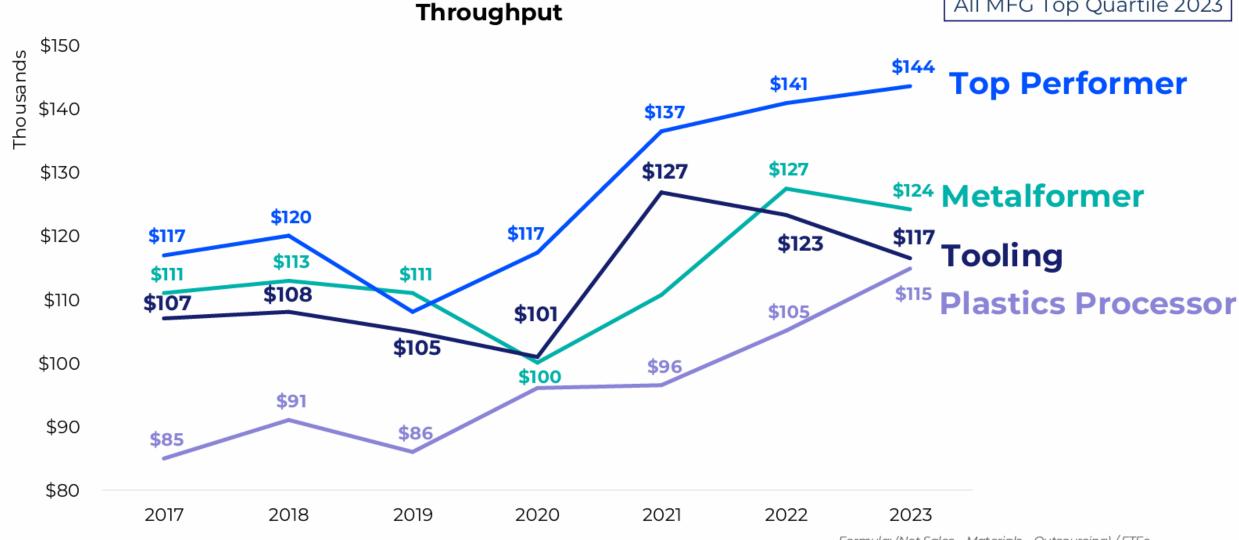
MFG'ers in Bankable Category Decline



Throughput Change Drives Returns

13





Profitability Declines for all but Plastics



Profitability (EBIT %)



16%

RECENT FINANCIAL TENSIONS IN THE SUPPLY CHAIN HAVE LED TO INTENSE NEGOTIATIONS, RESULTING IN LITIGATION

| Plaintiff | Defendant | Case Context | Outcome | Takeaway | |
|-------------------------|---|---|---|--|--|
| MSSC Tier 1 Customer | AirBoss of Armerica Corp. Tier 2 Supplier | Pricing dispute where MSSC claimed AirBoss was bound by a long-term requirements contract, while AirBoss argued it wasn't due to lack of a definite quantity term. | The Michigan Supreme Court ruled in favor of AirBoss, stating that "blanket" did not constitute a definite quantity term necessary for an enforceable contract. | Clear and definite quantity terms are essential for enforceable contracts. | |
| 🧭 нівисні | <u>Autoliv</u> | Higuchi sought increased pricing, which Autoliv refused, leading to a dispute over whether the term "requirements" in Autoliv's purchase orders was a sufficiently definite quantity term to create | The district court ruled in favor of Autoliv, stating that the term "requirements" in the purchase orders was a definite quantity term. | This case will clarify if the term "requirements" alone is sufficient for enforceable contracts. | |
| Tier 2 Supplier | Tier 1 Customer | an enforceable requirements contract under the UCC. | Higuchi has appealed. | | |
| STELLANTIS | Yanfeng | Data breach caused Yanfeng to miss shipments, and Stellantis issued a \$26 million debit. Yanfeng suspended shipments until | The court granted Stellantis a preliminary injunction, requiring Yanfeng to continue | Courts may issue injunctions to maintain supply chains despite force majeure | |
| OEM Customer | Tier 1 Supplier | the debit was reversed. | supplying parts despite the data breach. | claims. | |
| STELLANTIS | KAMAX | KAMAX threatened to stop supplying parts unless Stellantis agreed to price increases. KAMAX argued that Stellantis' | The court granted Stellantis an injunction to continue supply at existing prices while the | Injunctions can be granted to maintain supply chains during disputes. | |
| OEM Customer | Tier 1 Supplier | purchase orders did not sufficiently state a quantity term. | case is pending. | | |
| STELLONTIS | MACLEAN-FOGG | MacLean-Fogg sought a price increase, and when Stellantis refused, MacLean-Fogg threatened to stop shipping parts. | The court denied Stellantis' request for an injunction, finding that Stellantis' purchase orders were likely enforceable but that the | Courts may require stronger evidence of harm before granting injunctions. | |
| OEM Customer | Tier 1 Supplier | Stellantis sought an injunction to compel supply. | fears of supplier revolt were speculative. | | |

Source: Warner Norcross & Judd



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