

CHINA AND JAPAN MACHINERY EXPORT TRACKER

Jun 2026 update: Mixed DMs; broad-based strength across EMs

Global Construction Machinery
Forecasting global demand and tracking
China/Japan exports as a high frequency indicator



In this June 2026 update, we highlight mixed DMs and sustained strength in EMs. In DMs, North America maintained solid value growth, while Europe saw value growth turning negative yoy. In EMs, South America and Africa stayed robust, Southeast Asia accelerated, and Middle East turned to growth yoy. For the month, China export value grew +34% yoy (+29% in 2Q26), Japan exports (JPY) rose +7% yoy (+15% in 2Q26), and combined export value (USD) was up +17% yoy (+19% in 2Q26).

North America saw soft volume (-14% yoy in Jun vs. +11% in 2Q26) but solid value growth (+c.15% yoy growth in Jun/2Q26). The mixed trend was mainly driven by China exports which turned into decline in volume (-34% in Jun, vs. +8% in 2Q26) but strong in value growth (+46% yoy in Jun and +59% in 2Q26). Japan exports accelerated to +22%/+23% yoy in Jun (+15%/+20% in 2Q26).

Europe stayed solid in volume (40%+ yoy growth in Jun/2Q26) but turned to a decline in value (-3% yoy in

Jun, vs. +7% in 2Q26), mainly dragged by soft Japan exports (flat/-11% yoy in volume/value in Jun; 2Q26: 10%+ growth). China exports remained solid at +59%/+16% in Jun (+53%/+12% in 2Q26).

South America stayed robust in June with 45%+ yoy growth (50%+ yoy growth in 2Q26). China stayed strong at c.50% yoy growth (c.60% yoy growth in 2Q26), Japan exports also turned to positive growth in Jun, up +8%/+43% yoy in volume/value (+2%/+47% in 2Q26).

Southeast Asia accelerated in Jun, up +21%/+15% yoy (10%+ yoy in 2Q26), mainly driven by accelerating China exports (+23%/+35% in Jun; 2Q26: +15%/+22%). Japan was soft at -2%/-59% in Jun (-4%/-44% in 2Q26).

Middle East and Africa saw robust growth of +49%/+32% yoy in volume/value in Jun (+23%/+29% in 2Q26). Middle East turned positive yoy (+32%/+11% in Jun; 2Q26: MSD% yoy decline). Africa stayed strong at +66%/+43% (50%+ yoy growth in 2Q26).

Oceania stayed robust, with volume/value up +46%/+24% in Jun (+44%/+32% in 2Q26).

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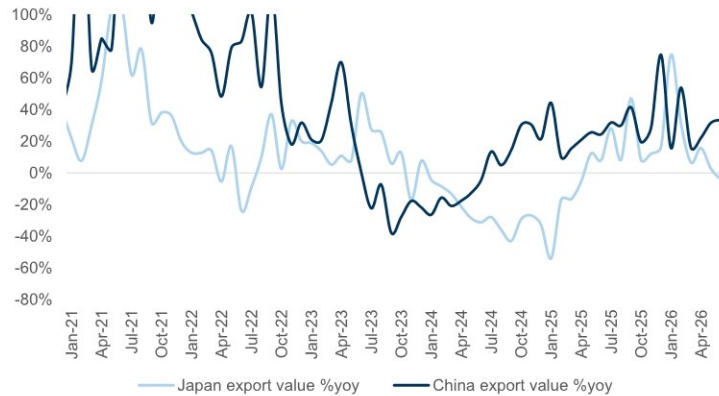
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China exports vs. Japan exports

Exhibit 1: China export value rose +34% yoy in June (+29% in 2Q26), while Japan exports slowed down (+15% in 2Q26)

Total export value of excavators yoy chg% (China vs. Japan)



Source: China Customs, Japan Ministry of Finance, Goldman Sachs Global Investment Research

Exhibit 3: China export value to Europe improved to +16% yoy in June (+12% in 2Q26), while Japan turned to decline of -11% yoy (+13% in 2Q26)

Export value of excavators into Europe yoy chg% (China vs. Japan)



Source: China Customs, Japan Ministry of Finance, Goldman Sachs Global Investment Research

Exhibit 2: China export value to North America moderated in Jun, but stayed solid at +46% yoy (+59% in 2Q26); Japan grew by +23% yoy (+20% in 2Q26)

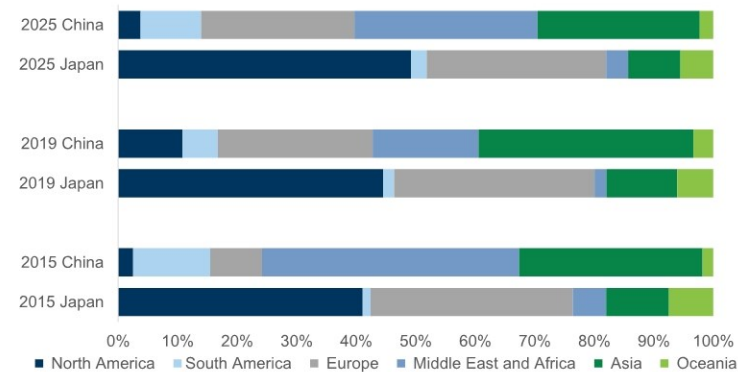
Total export value of excavators into North America yoy chg% (China vs. Japan)



Source: China Customs, Japan Ministry of Finance, Goldman Sachs Global Investment Research

Exhibit 4: Japan's excavator exports have been skewed to DMs, while those from China were skewed towards EMs

Export destination comparison - China vs. Japan export value breakdown by region 2025/2019/2015



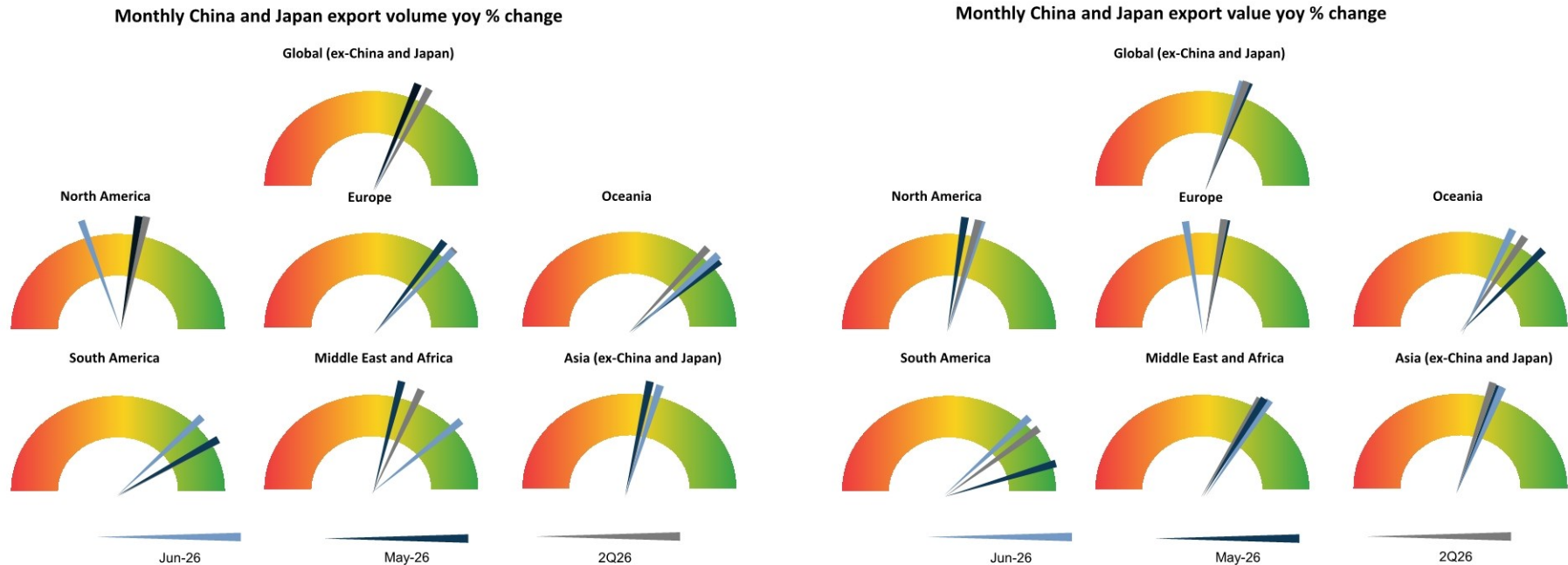
Source: China Customs, Japan Ministry of Finance, Goldman Sachs Global Investment Research

Construction machinery export barometer

Exhibit 5: In this June 2026 update, we highlight mixed DMs and sustained strength in EMs. In DMs, North America maintained solid value growth, while Europe saw value growth turning negative yoy. In EMs, South America and Africa stayed robust, Southeast Asia accelerated, and Middle East turned to growth yoy. For the month, China export value grew +34% yoy (+29% in 2Q26), Japan exports (JPY) rose +7% yoy (+15% in 2Q26), and combined export value (USD) was up +17% yoy (+19% in 2Q26).

GS monthly excavator export volume and value barometer

Monthly China and Japan total export volume and value yoy % change



Source: China Customs, Japan Ministry of Finance, Goldman Sachs Global Investment Research

GS China and Japan machinery export tracker: A tool to monitor global machinery sales

Why do we track excavator exports from China and Japan?

- Excavators represent roughly 50% of the global demand for construction machinery and have been the most actively traded type of construction equipment inter-region.
- China and Japan are the predominant sources of global excavator supply, representing c.70% of the global market outside the two countries as of 2022.

What do the back-testing results tell us about the quality of the data series?

- All machinery companies within our global coverage space have shown a high correlation between their quarterly sales revenue and the export data series, with CAT showing the highest correlation (0.86-0.91).
- The export data series also shows high correlation (0.64-0.79) with the historical market demand trend tracked by Komatsu (released with a 3-month lag) across major regions.

How do we use the tracker?

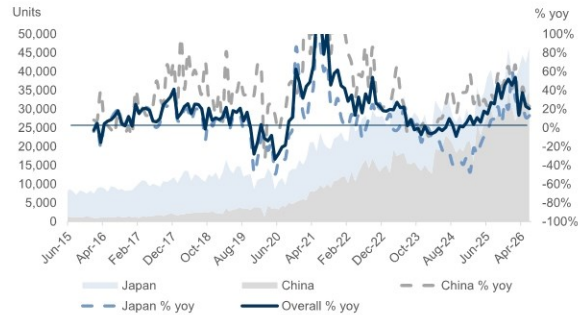
- Japan exports into North America and Western Europe can be quite representative of the market demand in those two regions given Japan has historically been used as a key export hub for machinery into the two regions.
- China exports into EMs like Southeast Asia, the Middle East and Africa and South America can serve as a good proxy for the demand there given Chinese players' bigger presence in those regions, as well as the fact that MNCs tend to use their China factories more for exports into EMs.
- Looking at the combined exports from both Japan and China could minimize the noise of the shift in supply between the two countries, if any.

For detailed discussion of our methodologies, please see our launch note [here](#) and our in-depth analysis on global machinery supply [here](#).

Monthly excavator export volume tracker

Exhibit 6: Total combined export volume rose +20% yoy in June (+26% in 2Q26), with China up +23% yoy (+30% in 2Q26) and Japan up +13% yoy (+16% in 2Q26)

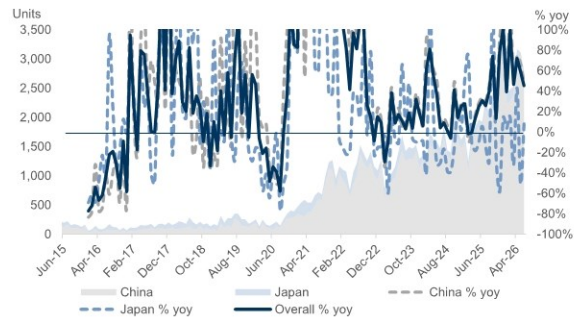
Monthly China and Japan total export volume and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 9: South America stayed solid at +45% yoy in June (+59% in 2Q26), with China remaining strong at +49% yoy (+63% in 2Q26) and Japan turning to growth of +8% yoy (+2% in 2Q26)

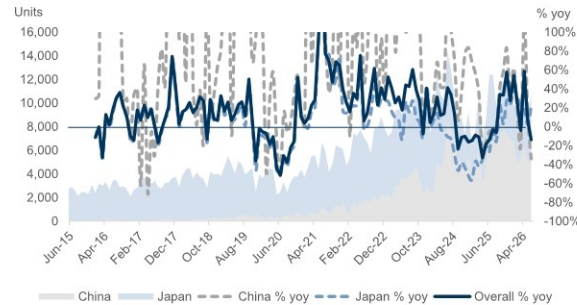
Monthly China and Japan total export volume to South America and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 7: North America volume fell -14% yoy in June (+11% in 2Q26) mainly dragged by China exports (down -34% yoy in Jun and +8% in 2Q26); Japan stayed solid at +22% yoy (+15% in 2Q26)

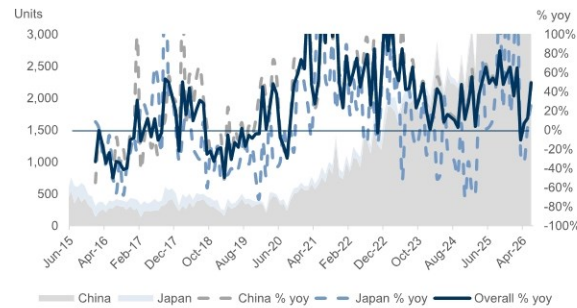
Monthly China and Japan total export volume to North America and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 10: Middle East and Africa accelerated to +49% yoy in June (+23% in 2Q26), with Middle East turning to growth of +32% yoy (-7% in 2Q26) and Africa staying strong at +66% (+54% in 2Q26)

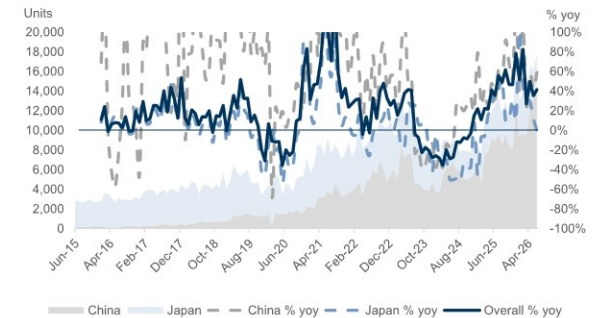
Monthly China and Japan total export volume to the Middle East and Africa yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 8: Europe volume rose a solid +42% yoy in June (+42% in 2Q26) mainly on strong China exports (up 50+% yoy in Jun/2Q26); Japan exports moderated with flat growth (+13% in 2Q26)

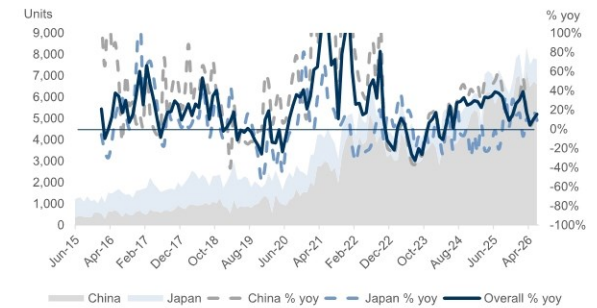
Monthly China and Japan total export volume to Europe and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 11: Other Asia accelerated to +16% yoy in June (+10% in 2Q26) mainly on acceleration in China (+17% yoy in Jun and +10% in 2Q26) as Japan moderated to +9% yoy (+11% in 2Q26)

Monthly China and Japan total export volume to Other Asia and yoy % change



Source: China Customs, Japan Ministry of Finance

Monthly excavator export value tracker

Exhibit 12: Total combined export value rose +17% yoy in June (+19% in 2Q26), with China staying solid at +34% yoy (+29% in 2Q26) and Japan moderating to +7% yoy (+15% in 2Q26)

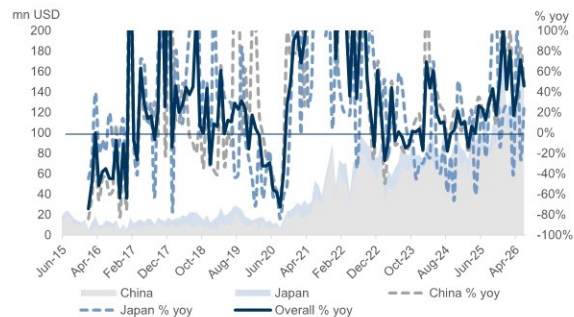
Monthly China and Japan total export value and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 15: South America value stayed strong at +46% yoy in June (+52% in 2Q26), with strength seen across China (+49% yoy in Jun and +55% in 2Q26) and Japan exports (+43% yoy in Jun and +47% in 2Q26)

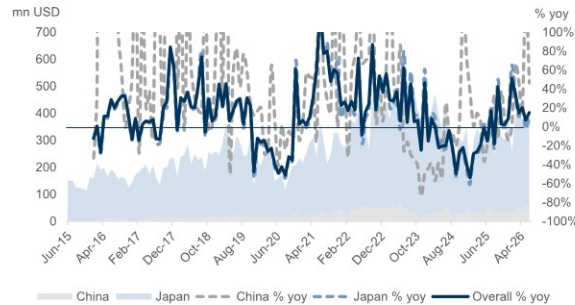
Monthly China and Japan total export value to South America and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 13: North America value rose +15% yoy in June (+14% in 2Q26), with solid growth seen across China exports (+46% yoy in Jun and +59% in 2Q26) and Japan (+23% yoy in Jun and +20% in 2Q26)

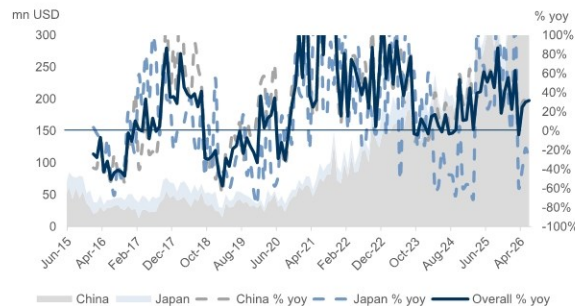
Monthly China and Japan total export value to North America and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 16: Middle East and Africa value was solid at +32% yoy in June (+29% in 2Q26), with Middle East turning positive yoy to +11% (-6% in 2Q26) and Africa staying solid at +43% (+50% in 2Q26)

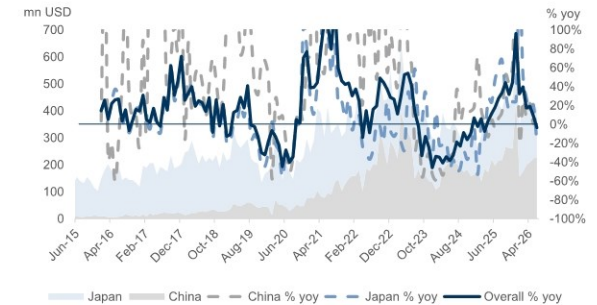
Monthly China and Japan total export value to the Middle East and Africa yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 14: Europe value fell -3% yoy in June (+7% in 2Q26) due to soft Japan exports (-11% yoy in Jun and +13% in 2Q26); China exports stayed solid at +16% yoy (+12% in 2Q26)

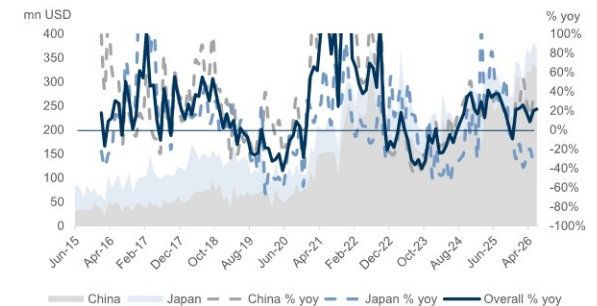
Monthly China and Japan total export value to Europe and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 17: Other Asia value rose +22% yoy in June (+17% in 2Q26), with China staying solid at +36% yoy (+27% in 2Q26) and Japan remaining soft at -24% yoy (-22% in 2Q26)

Monthly China and Japan total export value to Other Asia and yoy % change



Source: China Customs, Japan Ministry of Finance

Exhibit 18: Summary of China and Japan export volume and value trends by destination
 yoy chg% and % of total breakdown by region

Export volume '15-16	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
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	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																																																																																																																			
Export value in % of total	25.4	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5	180.0	180.5	181.0	181.5	182.0	182.5	183.0	183.5	184.0	184.5	185.0	185.5	186.0	186.5	187.0	187.5	188.0	188.5	189.0	189.5	190.0	190.5	191.0	191.5	192.0	192.5	193.0	193.5	194.0	194.5	195.0	195.5	196.0	196.5	197.0	197.5</

Source: China Customs

Exhibit 20: Summary of Japan export volume and value trends by destination
yoy chg% and % of total breakdown by region

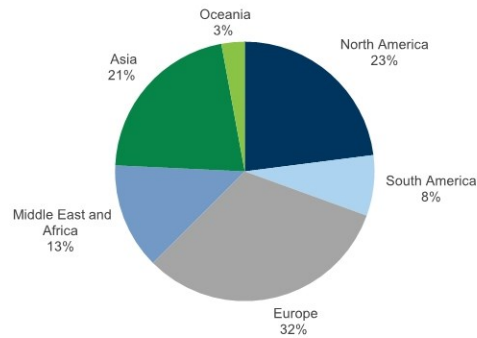
[illegible]

Source: Japan Ministry of Finance

Key facts about China and Japan excavator exports

Exhibit 21: Europe was the largest destination for China's exports of excavators in 2025, followed by North America

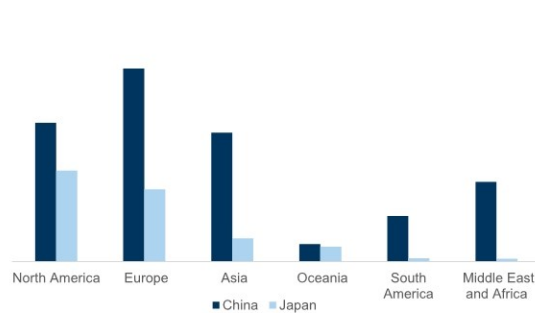
China's annual excavator export volume, breakdown by destination (2025)



Source: China Customs

Exhibit 24: China mainly exports more excavators than Japan to other regions except for Oceania

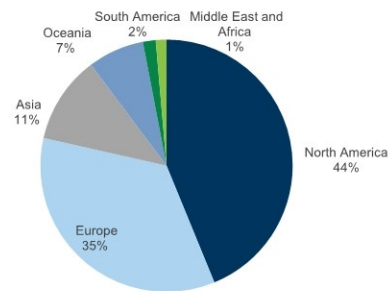
China vs. Japan export volume (in units) into different regions (2025)



Source: China Customs, Japan Ministry of Finance

Exhibit 22: North America is the largest export destination, representing 44% of total excavator exports from Japan, followed by Europe (35% of total)

Japan annual excavator export volume breakdown by destination (2025)



Source: Japan Ministry of Finance

Exhibit 25: OHR data suggests China and Japan excavator exports now represent c.70% of the global demand outside the two markets

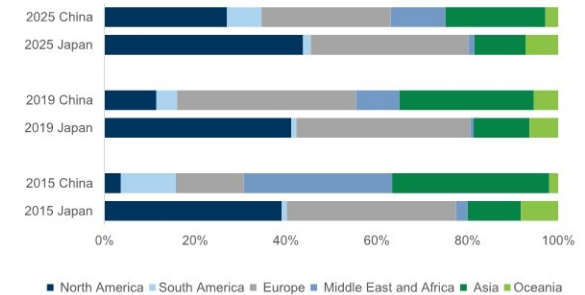
OHR implied China + Japan excavator export volume (in '000 units) as a % of global ex-China & Japan demand



Source: China Customs, Japan Ministry of Finance, Off-Highway Research

Exhibit 23: Japan's excavator exports have been skewed to NA/Europe, while those from China were skewed towards EMs; contributions from DMs have been visibly rising

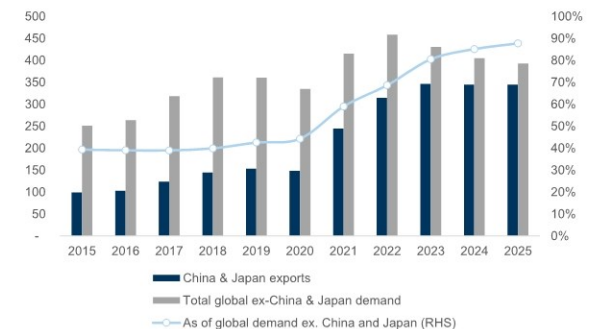
Export destination comparison - China vs. Japan breakdown by region 2025/2019/2015



Source: China Customs, Japan Ministry of Finance

Exhibit 26: China Customs and Japan Ministry of Finance data suggest China and Japan excavator exports now represent 80+% of the global demand outside the two markets

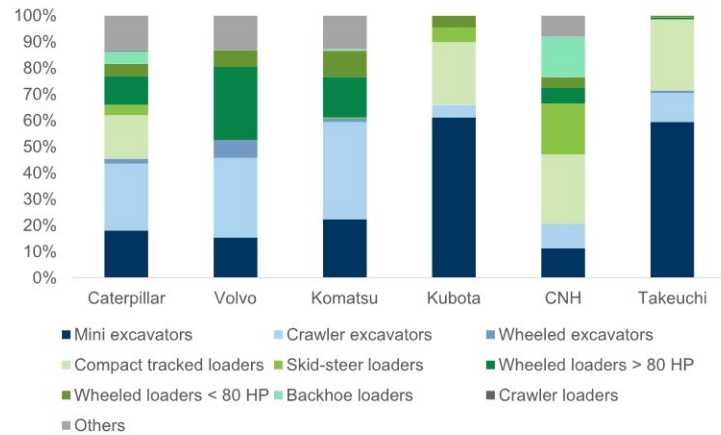
China + Japan excavator export volume (in '000 units) as a % of global ex-China & Japan demand



Source: China Customs, Japan Ministry of Finance, Off-Highway Research

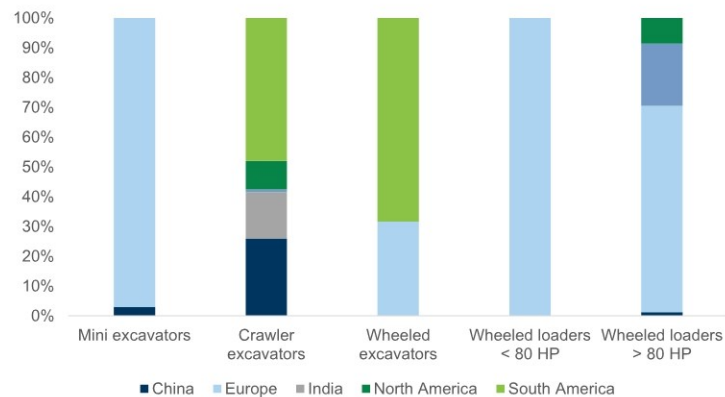
Mapping out key global players' CE sales breakdown by machinery type

Exhibit 27: Major companies' sales volume breakdown by different types of construction equipment (2025)



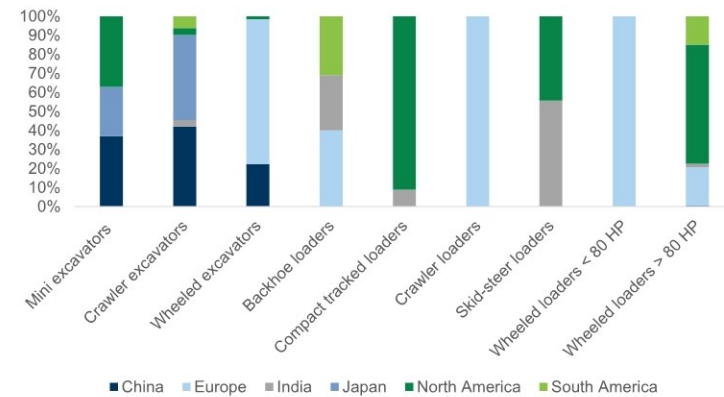
Source: Off-Highway Research

Exhibit 29: Volvo production breakdown by region for different types of excavators and loaders (2025)



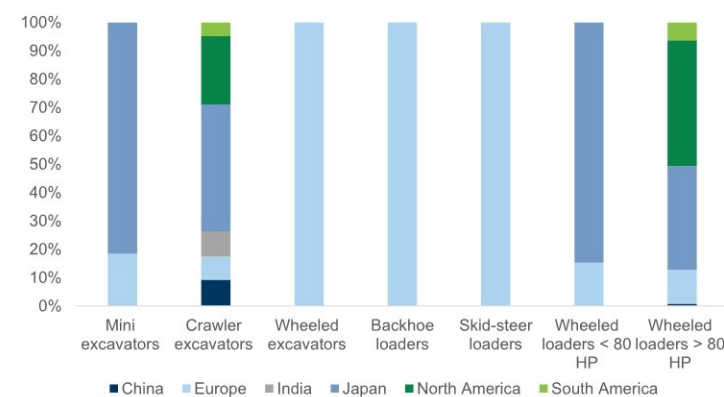
Source: Off-Highway Research

Exhibit 28: Caterpillar production breakdown by region for different types of excavators and loaders (2025)



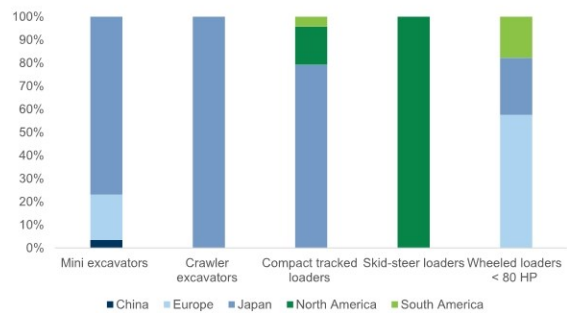
Source: Off-Highway Research

Exhibit 30: Komatsu production breakdown by region for different types of excavators and loaders (2025)



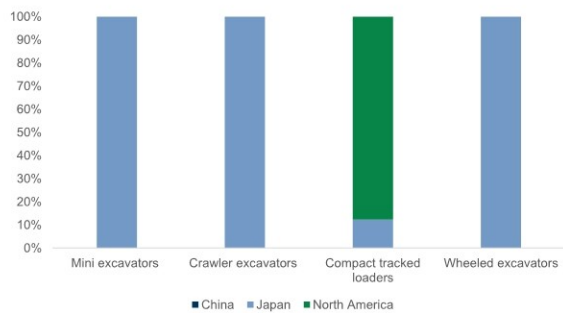
Source: Off-Highway Research

Exhibit 31: Kubota production breakdown by region for different types of excavators and loaders (2025)



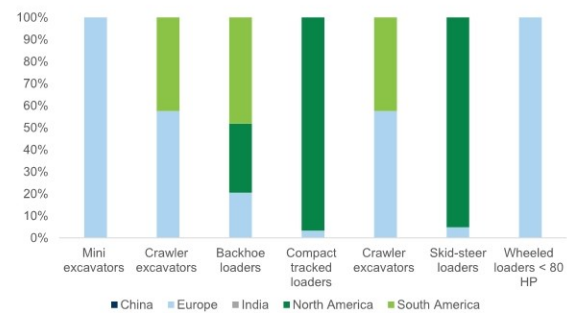
Source: Off-Highway Research

Exhibit 32: Takeuchi production breakdown by region for different types of excavators and loaders (2025)



Source: Off-Highway Research

Exhibit 33: CNH production breakdown by region for different types of excavators and loaders (2025)



Source: Off-Highway Research

Summary of the results of our correlation analysis

Exhibit 34: Correlation between monthly China and Japan excavator export volume showed significantly higher correlation after Mar 2020, but has started to see divergence since Apr 24...

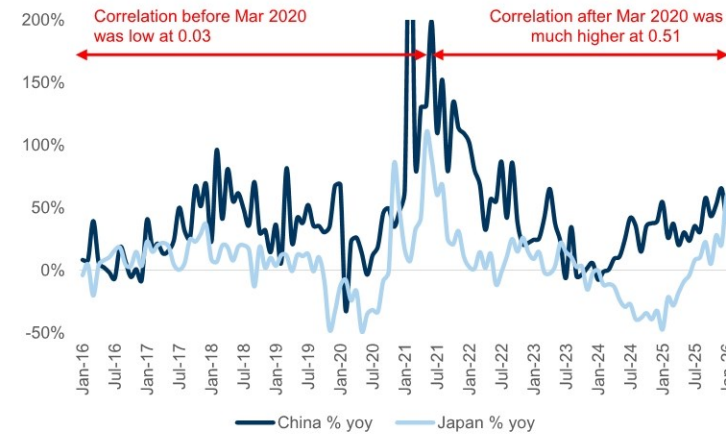
Monthly excavator export volume (China vs. Japan)



Source: China Customs, Japan Ministry of Finance

Exhibit 35: ...divergence is also shown in the correlation between monthly China and Japan excavator export volume % yoy in these three months

Monthly excavator export volume yoy chg% (China vs. Japan)



Source: China Customs, Japan Ministry of Finance

Exhibit 36: Our observations suggest that: 1) Across major players we cover, all players have displayed visibly higher correlation with Japan export value/volume than China export value/volume. Only Caterpillar and Volvo's global ex-Asia sales show meaningfully high correlation to China export data; 2) Across major regions, Caterpillar, Volvo, CNHI, Komatsu and Takeuchi's revenues in North America show significant correlation with Japan excavator export value, while in Kubota's case, its Europe revenues demonstrate relatively higher correlation

Correlation of companies' quarterly construction equipment volume/revenue with China and Japan excavator export data by key region

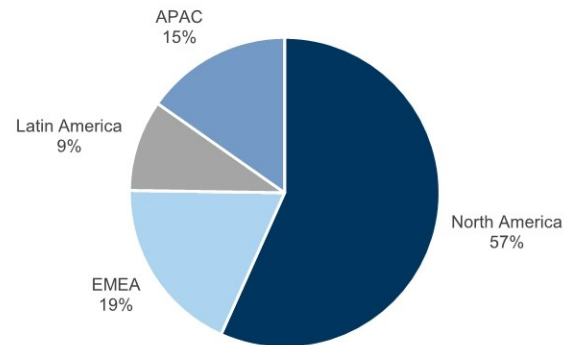
Volume	Caterpillar				Volvo				Komatsu				Kubota				Takeuchi				CNH		
	Total	Total ex.Asia	North America	EMEA	Total	Total ex.Asia	North America	Europe	Total	Total ex.Asia	North America	Europe	Total	Total ex.Asia	North America	Europe	Total	Total ex.Asia	North America	Europe	Total	North America	EMEA
China + Japan	0.67	0.80	0.78	0.66	0.05	0.69	0.56	0.50	0.59	0.60	0.65	0.63	0.60	0.62	0.08	0.67	0.53	0.60	0.49	0.34	0.79	0.73	0.60
China	0.62	0.71	0.44	0.63	-0.17	0.56	0.22	0.51	0.45	0.48	0.31	0.51	0.34	0.47	0.26	0.28	0.42	0.47	0.19	0.25	0.73	0.35	0.41
Japan	0.69	0.73	0.77	0.54	0.22	0.78	0.54	0.64	0.55	0.56	0.59	0.55	0.57	0.55	0.09	0.73	0.50	0.52	0.45	0.40	0.79	0.71	0.54
Japan, >6t	0.85	0.84	0.85	0.63	0.26	0.77	0.65	0.63	0.68	0.68	0.66	0.56	0.69	0.64	0.21	0.58	0.55	0.56	0.54	0.33	0.88	0.69	0.54
Japan, <6t	0.49	0.59	0.51	0.43	0.19	0.72	0.28	0.59	0.41	0.42	0.37	0.50	0.44	0.43	-0.06	0.73	0.42	0.44	0.26	0.39	0.67	0.55	0.50

Value	Caterpillar				Volvo				Komatsu				Kubota				Takeuchi				CNH		
	Total	Total ex.Asia	North America	EMEA	Total	Total ex.Asia	North America	Europe	Total	Total ex.Asia	North America	Europe	Total	Total ex.Asia	North America	Europe	Total	Total ex.Asia	North America	Europe	Total	North America	EMEA
China + Japan	0.81	0.87	0.81	0.84	0.50	0.71	0.70	0.69	0.66	0.67	0.68	0.69	0.67	0.68	0.56	0.75	0.58	0.63	0.47	0.35	0.83	0.73	0.63
China	0.69	0.77	0.36	0.75	0.36	0.49	0.19	0.58	0.56	0.60	0.33	0.57	0.55	0.55	0.31	0.51	0.51	0.57	0.08	0.31	0.69	0.29	0.48
Japan	0.85	0.88	0.86	0.77	0.59	0.67	0.79	0.67	0.75	0.74	0.76	0.67	0.76	0.68	0.58	0.81	0.68	0.69	0.62	0.44	0.85	0.71	0.61
Japan, >6t	0.87	0.89	0.84	0.75	0.60	0.67	0.79	0.65	0.76	0.74	0.75	0.64	0.76	0.71	0.62	0.72	0.67	0.67	0.64	0.39	0.83	0.66	0.56
Japan, <6t	0.67	0.75	0.63	0.74	0.44	0.58	0.47	0.59	0.62	0.62	0.53	0.64	0.62	0.52	0.16	0.84	0.63	0.62	0.44	0.46	0.76	0.59	0.57

Source: China Customs, Off-Highway Research, Japan Ministry of Finance, Company data

Back-testing the correlation vs. global machinery companies' quarterly sales

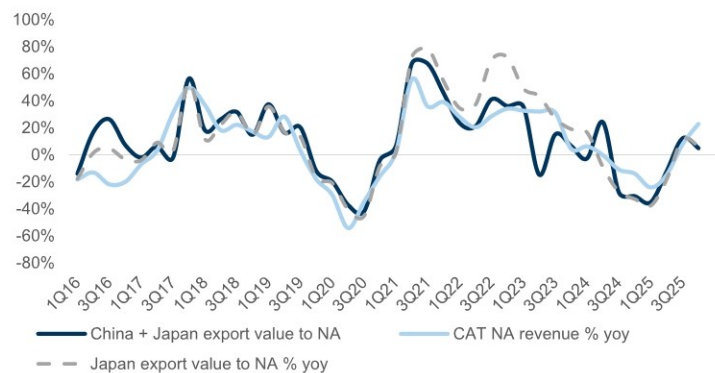
Exhibit 37: Caterpillar construction industries revenue breakdown by region (2025)



Source: Company data, Goldman Sachs Global Investment Research

Exhibit 39: CAT's North America CI revenue showed high correlation with excavator exports from China and Japan (0.82) and Japan excavator exports into the region alone (0.87)

CAT's CI revenue in North America vs. Japan/+China excavator exports to NA (yoy chg%)



Source: Company data, Japan Ministry of Finance, China Customs

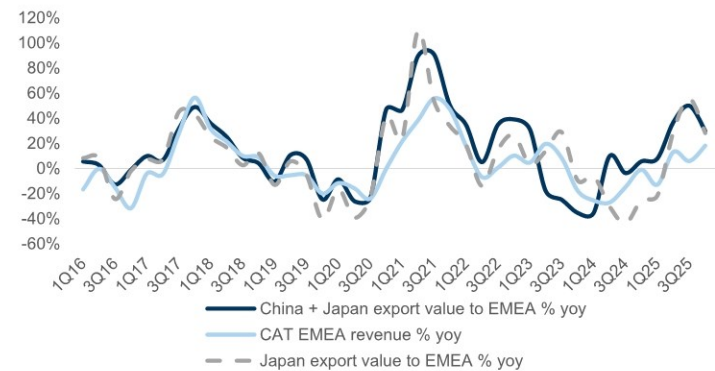
Exhibit 38: CAT's ex-Asia CI sales showed high correlation with total excavator exports from China and Japan (0.87) and Japan excavator export alone (0.89)
CAT's ex-Asia CI revenue vs. Japan/+China excavator export value (yoy chg%)



Source: Company data, Japan Ministry of Finance, China Customs

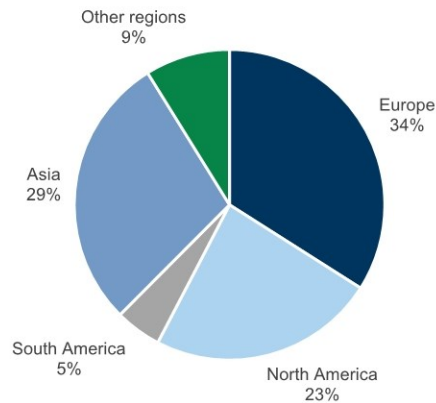
Exhibit 40: CAT's EMEA revenue has shown high correlation with excavator exports from China and Japan (0.86) and Japan excavator exports into EMEA alone (0.77)

CAT's CI revenue in Europe vs. Japan/+China excavator exports into EMEA (yoy chg%)



Source: Company data, Japan Ministry of Finance, China Customs

Exhibit 41: Volvo's sales of construction equipment breakdown by region (CY 2025)



Source: Company data

Exhibit 43: Volvo's CE revenue in North America showed moderately high correlation with excavator exports from Japan and China (0.65) and high correlation with Japan excavator (>6t) exports into the region alone (0.79)
Volvo's quarterly NA CE sales value vs. Japan/+China export value to NA (yoy chg%)



Source: Company data, Japan Ministry of Finance, China Customs

Exhibit 42: Volvo's ex-Asia sales volume of CE showed high correlation with excavator exports from Japan and China (0.71) and Japan excavator (>6t) exports alone (0.67)

Volvo's quarterly total CE ex-Asia sales volume vs. Japan/+China export volume (yoy chg%)



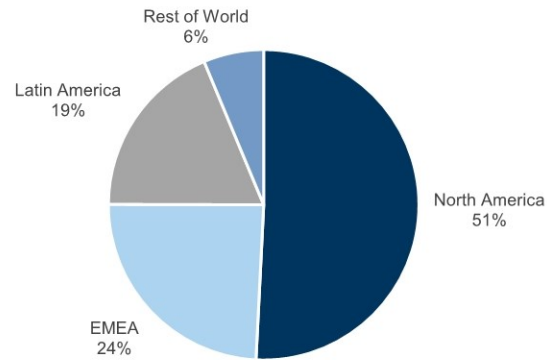
Source: Company data, Japan Ministry of Finance, China Customs

Exhibit 44: Volvo's CE revenue in Europe showed high correlation with excavator exports from Japan and China (0.68) and Japan excavator (>6t) exports into the region alone (0.65)
Volvo's quarterly Europe CE sales vs. Japan/+China export value to Europe (yoy chg%)



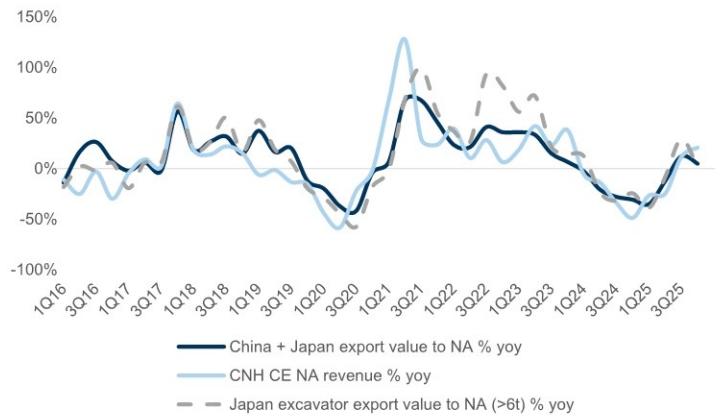
Source: Company data, Japan Ministry of Finance, China Customs

Exhibit 45: CNH's sales of construction equipment breakdown by region (CY 2025)



Source: Company data

Exhibit 47: CNH's CE revenue in North America showed moderately high correlation with excavator exports from Japan and China (0.70) and high correlation with Japan excavator (>6t) exports into the region alone (0.64)
CNH's quarterly NA CE sales value vs. Japan/+China export value to NA (yoy chg%)



Source: Company data, Japan Ministry of Finance, China Customs

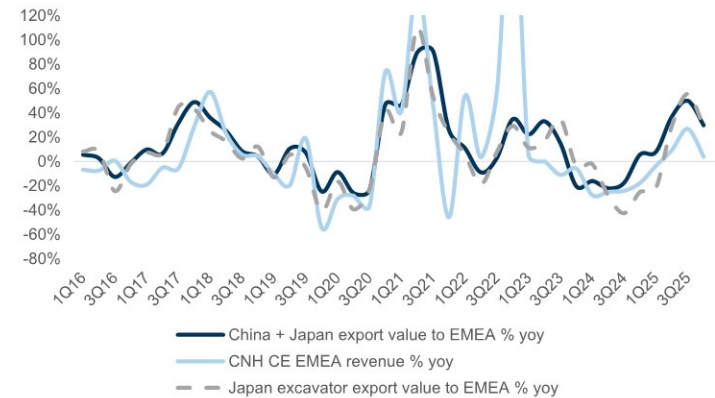
Exhibit 46: CNH's sales revenue of CE showed high correlation with excavator exports from Japan and China (0.84), and >6t excavator export value from Japan (0.83)

CNH's quarterly CE sales vs. Japan/+China export value (yoy chg%)



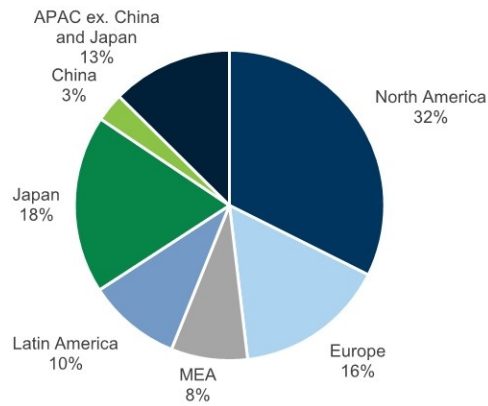
Source: Company data, Japan Ministry of Finance, China Customs

Exhibit 48: CNH's CE revenue in Europe showed modest correlation with excavator exports from Japan and China (0.61) and Japan excavator (>6t) exports into the region alone (0.56)
CNH's quarterly Europe CE sales vs. Japan/+China export value to Europe (yoy chg%)



Source: Company data, Japan Ministry of Finance, China Customs

Exhibit 49: Komatsu's construction machinery segment revenue breakdown by region (CY 2025)

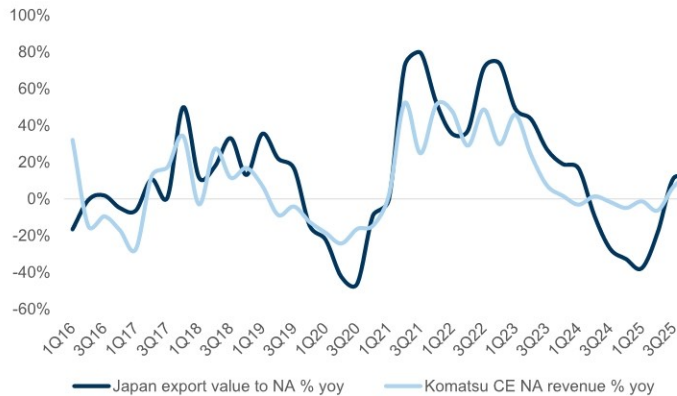


APAC includes Oceania and India.

Source: Company data

Exhibit 51: Komatsu's North America CE sales showed high correlation with Japan excavator exports into North America (0.77)

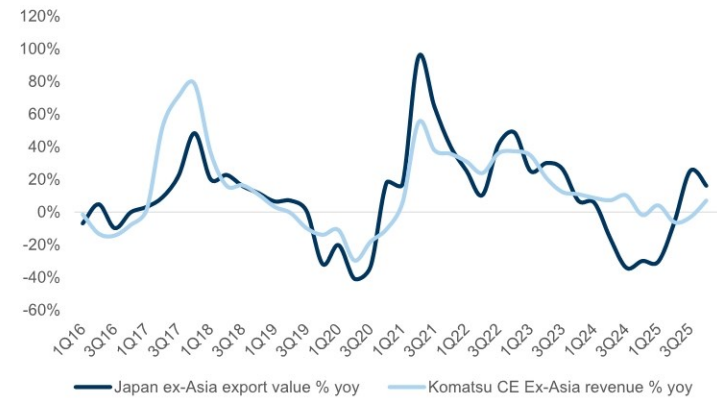
Komatsu North America CE sales vs. Japan export value to North America (yoy chg%)



Source: Company data, Japan Ministry of Finance

Exhibit 50: Komatsu's total ex-Asia CE sales showed high correlation with Japan excavator export value (0.66)

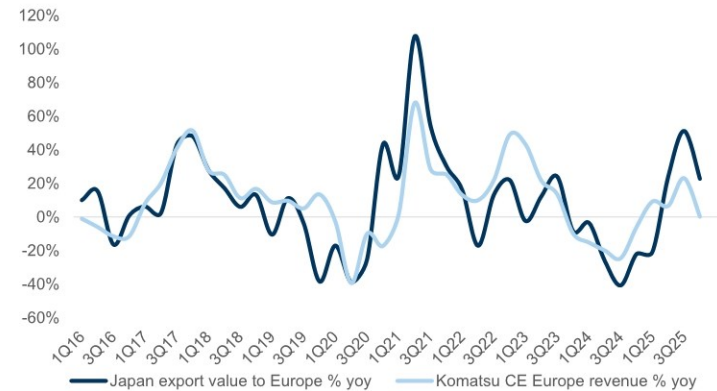
Komatsu total ex-Asia CE sales vs. Japan export value (yoy chg%)



Source: Company data, Japan Ministry of Finance

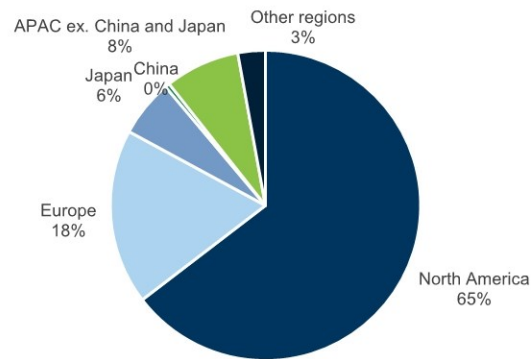
Exhibit 52: Komatsu's Europe CE sales showed moderately high correlation with Japan excavator exports into Europe (0.67)

Komatsu Europe CE sales vs. Japan export value to Europe (yoy chg%)



Source: Company data, Japan Ministry of Finance

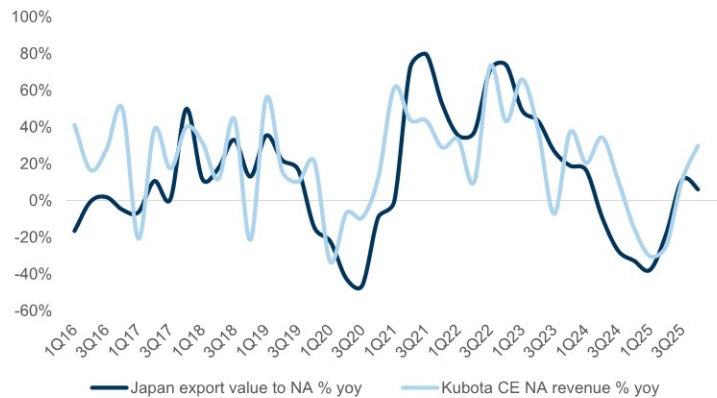
Exhibit 53: Kubota's sales of construction equipment breakdown by region (CY 2025)



Source: Company data

Exhibit 55: Kubota's CE sales in North America showed modest correlation with Japan excavator export value into North America (0.57)

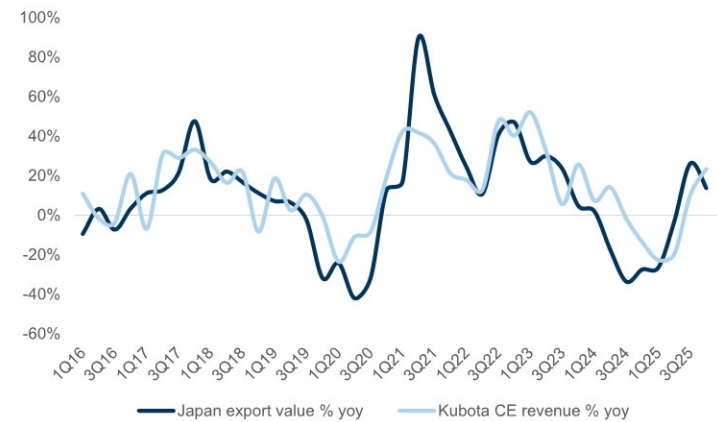
Kubota's quarterly North America CE revenue vs. Japan excavator exports to North America (yoy chg%)



Source: Company data, Japan Ministry of Finance

Exhibit 54: Kubota's CE sales showed high correlation with Japan excavator export value (0.75)

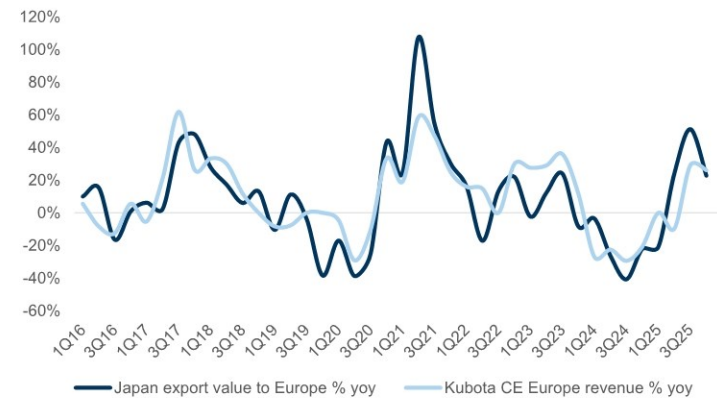
Kubota's quarterly total CE sales revenue vs. Japan total export value (yoy chg%)



Source: Company data, Japan Ministry of Finance

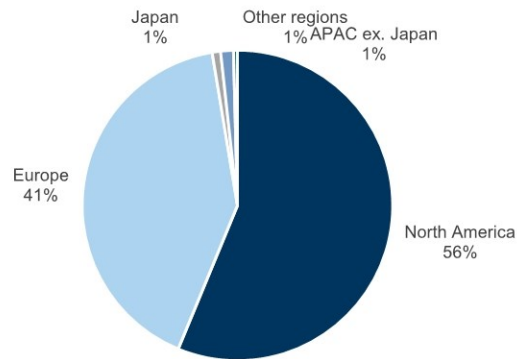
Exhibit 56: Kubota's CE sales in Europe showed high correlation with Japan excavator export value into Europe (0.81)

Kubota's quarterly Europe CE revenue vs. Japan excavator exports to Europe (yoy chg%)



Source: Company data, Japan Ministry of Finance

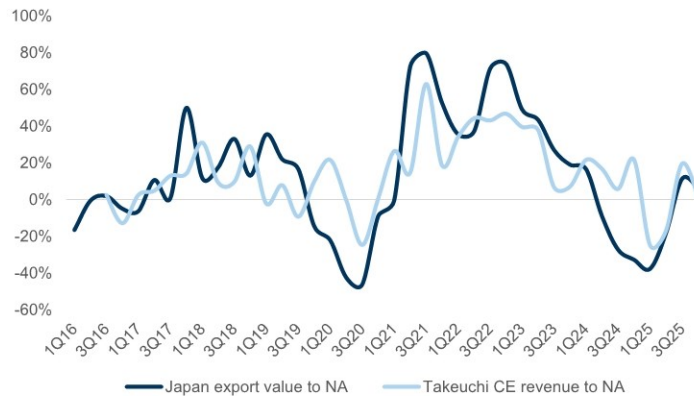
Exhibit 57: Takeuchi's sales of construction equipment breakdown by region (CY 2025)



Source: Company data

Exhibit 59: Takeuchi's CE sales in North America showed high correlation with Japan excavator export value into North America (0.70)

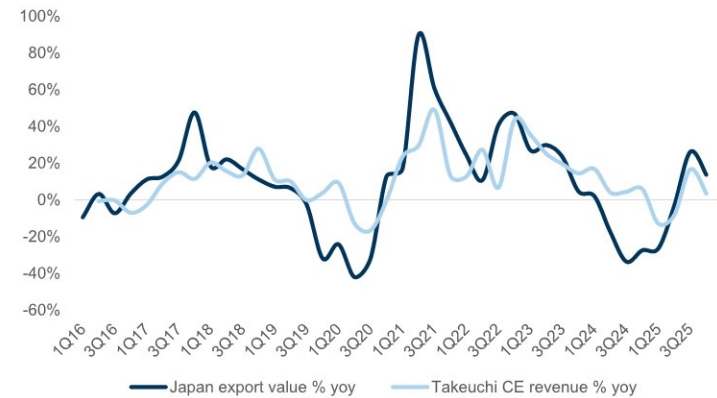
Takeuchi's quarterly North America CE revenue vs. Japan excavator exports to North America (yoy chg%)



Source: Company data, Japan Ministry of Finance

Exhibit 58: Takeuchi's CE sales showed high correlation with Japan excavator export value (0.69)

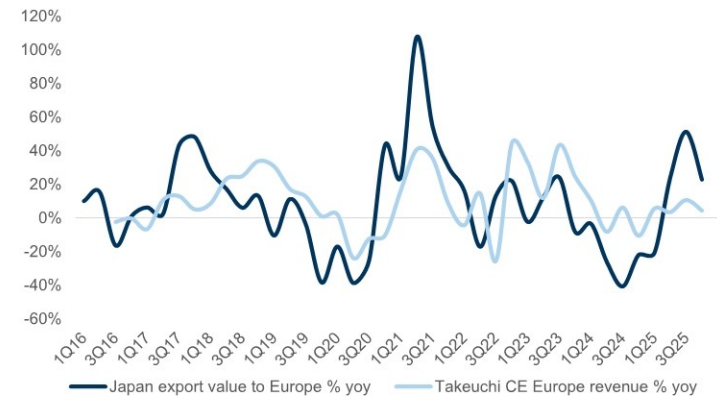
Takeuchi's quarterly total CE sales revenue vs. Japan total export value (yoy chg%)



Source: Company data, Japan Ministry of Finance

Exhibit 60: Takeuchi's CE sales in Europe showed low correlation with Japan excavator export value into Europe (0.44)

Takeuchi's quarterly Europe CE revenue vs. Japan excavator exports to Europe (yoy chg%)



Source: Company data, Japan Ministry of Finance

Back-testing the correlation vs. actual market demand

Exhibit 61: Japan excavator export volume into North America showed decently high correlation with retail demand in the region tracked by Komatsu...

Japan excavator export volume to North America vs. retail demand in North America



Source: Japan Ministry of Finance, Company data

Exhibit 63: Combined excavator export volume into Europe showed fairly high correlation with the Europe retail demand tracked by Komatsu

China + Japan excavator export volume to Europe vs. retail demand in Europe



Source: Japan Ministry of Finance, Company data, China Customs

Exhibit 62: ...similarly for combined excavator export volume from China and Japan into North America

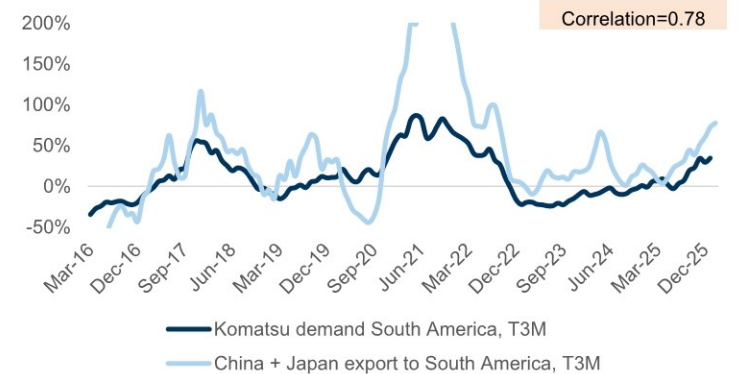
China + Japan excavator export volume to North America vs. retail demand in North America



Source: Japan Ministry of Finance, Company data, China Customs

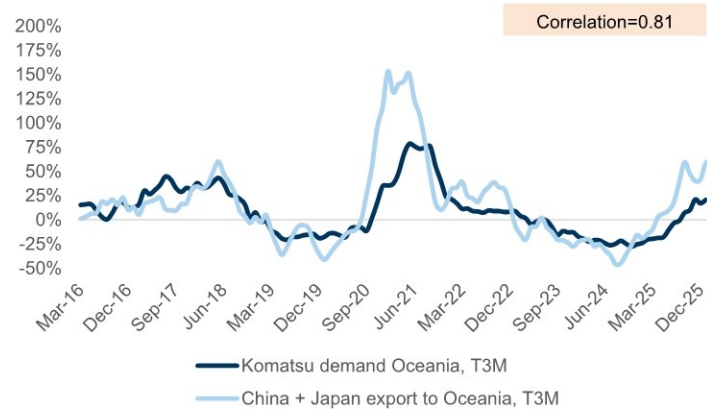
Exhibit 64: Combined excavator export volume into South America showed high correlation with the wholesale demand in the region tracked by Komatsu

China + Japan excavator export volume to South America vs. wholesale demand in South America



Source: Company data, China Customs, Japan Ministry of Finance

Exhibit 65: Combined excavator export volume into Oceania shows high correlation with the retail demand in the region tracked by Komatsu
China and Japan excavator export volume to Oceania vs. retail demand in Oceania



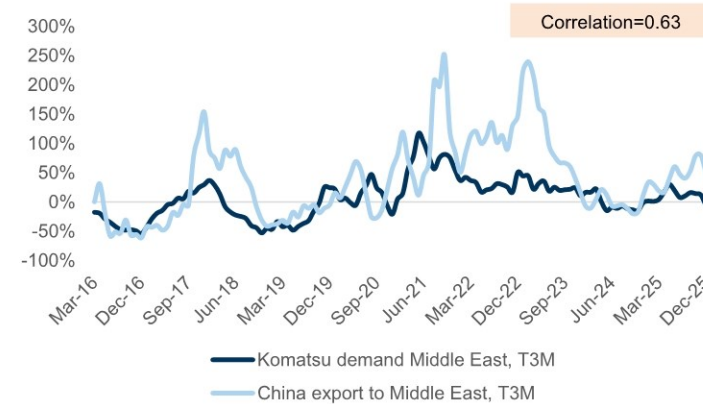
Source: Company data, China Customs, Japan Ministry of Finance

Exhibit 67: China excavator exports into Southeast Asia show fairly high correlation with the retail demand in the region tracked by Komatsu
China excavator export volume to Southeast Asia vs. retail demand in Southeast Asia



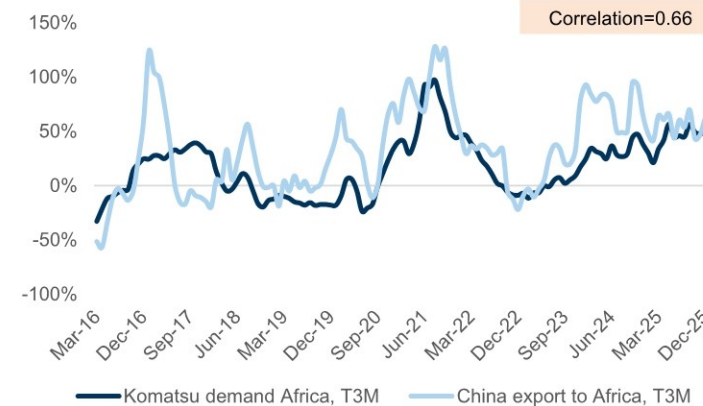
Source: Company data, China Customs

Exhibit 66: China's excavator exports into the Middle East show fairly high correlation with the region's wholesale demand tracked by Komatsu
China excavator export volume to the Middle East vs. wholesale demand in the Middle East



Source: Company data, China Customs

Exhibit 68: China excavator exports into Africa show fairly high correlation with the region's wholesale demand tracked by Komatsu
China excavator export volume to Africa vs. wholesale demand in Africa



Source: Company data, China Customs

Disclosure Appendix

Reg AC

We, Nick Zheng, CFA, Takeru Adachi, Yuichiro Isayama and Daniela Costa, hereby certify that all of the views expressed in this report accurately reflect our personal views about the subject company or companies and its or their securities. We also certify that no part of our compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed in this report.

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