TecAlliance

TecDoc TecCom TecRMI

2023 | No.5

TecAlliance E-newsletter

Heavy Commercial Vehicle (Greater China)

TecAlliance China

Content

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01. Market Info

- China Mainland

02. TecAlliance Data

- Vehicle Data Overview
- OES Data Overview

03. Product & Solution

- Heavy Commercial Vehicle VIN number search - API

04. Company News

- A newly-designed loading page has been applied to Standard SPA Catalogues
- We were awarded EcoVadis Sustainability silver medal for 2023
- We were popular at China Automobile Parts Fair

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01 Market Info

(China Mainland)

China Mainland Highlight Vehicle News

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2023 Highlight Vehicle Industry Trends

The new member of the lightweight chassis zero carbon emission CHENGLONG H5V has arrived！

As a hydrogen powered cargo vehicle for the future, the powertrain of this Chenglong H5V is its biggest highlight. The vehicle is equipped with a K05 hydrogen internal combustion engine with a power of 125kW. The engine uses advanced electronic control system and Common rail technology to achieve efficient hydrogen injection and mixing, making its thermal efficiency as high as 43%.

Hydrogen internal combustion engines are not actually new, and their structure is similar to natural gas engines, with lower requirements for hydrogen purity (95%), reducing the cost and difficulty of hydrogenation. Relying on the efficient and clean characteristics of hydrogen, it has advantages such as low ignition energy, fast flame propagation speed, high unit heat value, and no carbon emissions in combustion products, which is in line with the national advocacy for low-carbon and clean energy. And compared to hydrogen fuel cell trucks, hydrogen internal combustion engines are more suitable for operating under high load conditions, suitable for heavy-duty, unpaved roads, construction and other fields.

In terms of hydrogen storage, the Compressed hydrogen aluminum liner carbon fiber fully wound gas cylinders of the vehicle are arranged on both sides of the girder. The aluminum alloy liner has good corrosion resistance and fatigue resistance, while the carbon fiber composite shell has high strength and other characteristics, which can provide sufficient structural support and protection.

The new member hydrogen internal combustion engine cargo vehicle of the Chenglong H5V not only achieves zero carbon emissions, but also has lightweight chassis, efficient power, luxurious configurations, etc., bringing cardholders a new driving experience and transportation mode for the future. For card enthusiasts, if you want to try a new energy method and enjoy a more efficient, comfortable, and intelligent transportation process, then the Citroen H5V hydrogen internal combustion engine 6 × A 2 truck would be a good choice.

Article From : https://www.360che.com

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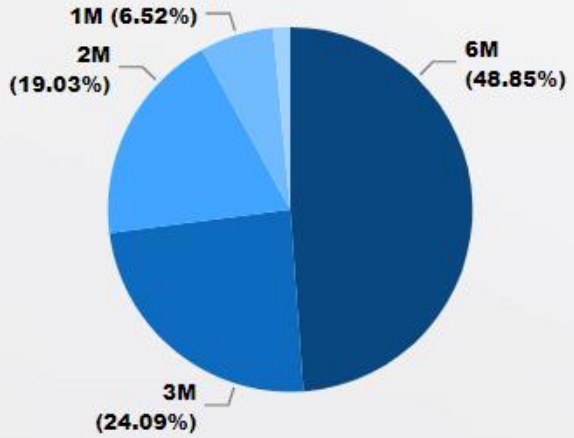
CHINA CV VIO REPORT

VIO until 2022H2

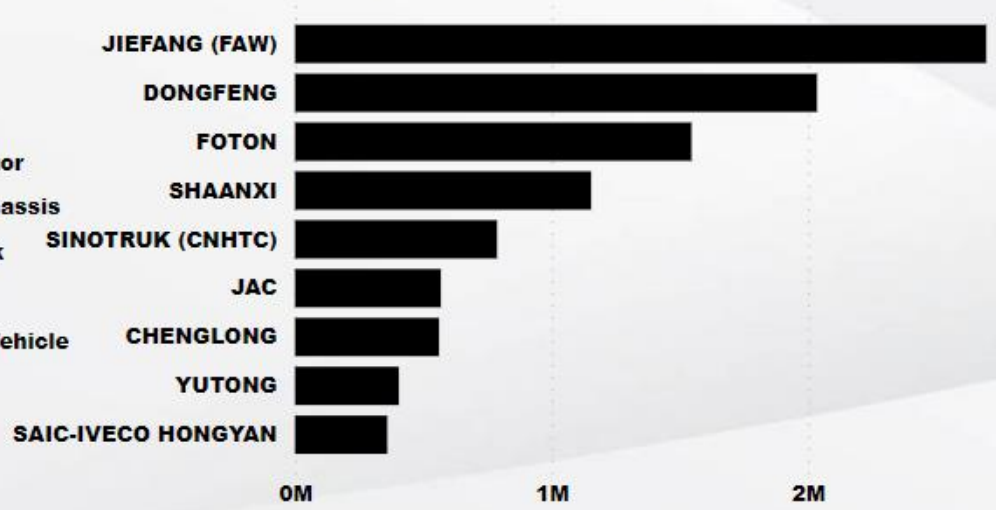
Data based on ChinaID level data

VEHICLE IN OPERATION	VEHICLES BRANDS	N-TYPE W/ VIO	CHINAID W/ VIO
12M	52	6474	55756

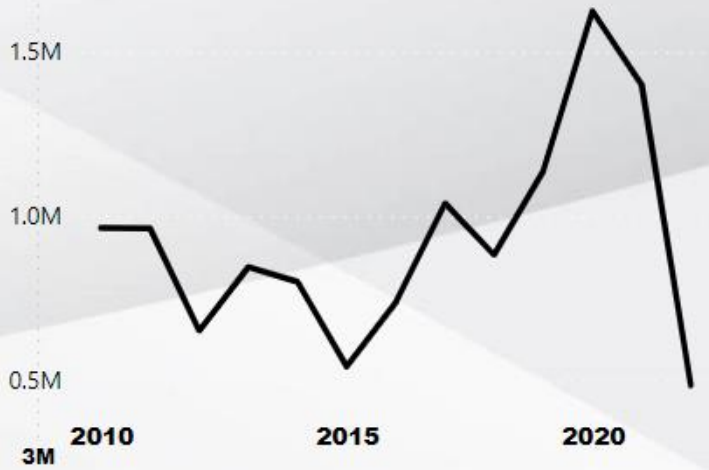
VIO By Body type



Top 10 BRANDS by VIO

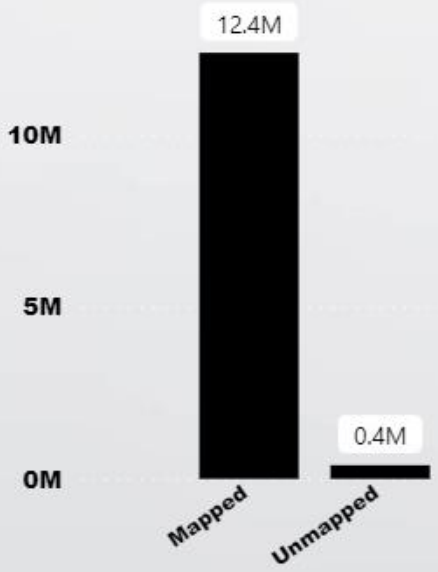


REGISTRATION TREND by YEAR



TOP 5 PROVINCE by VIO

N-TYPE/VIO COVERAGE



TOP 3 VEHICLE IN OPERATION

JIEFANG(FAW)	DONGFENG	FOTON
J6P	TIANLONG	AUMAN ETX
MODEL	MODEL	MODEL
1,039,745	784,397	693,554
POPULATION	POPULATION	POPULATION
8.42%	6.33%	5.64%
SHARE	SHARE	SHARE

Back

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02 TecAlliance Data

(VDS / OES)

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Vehicle Data Overview

VDS KPI DASHBOARD

Vehicle Data Maintenance | Overview

Note: incl. RDM, BIEB, ChinaID

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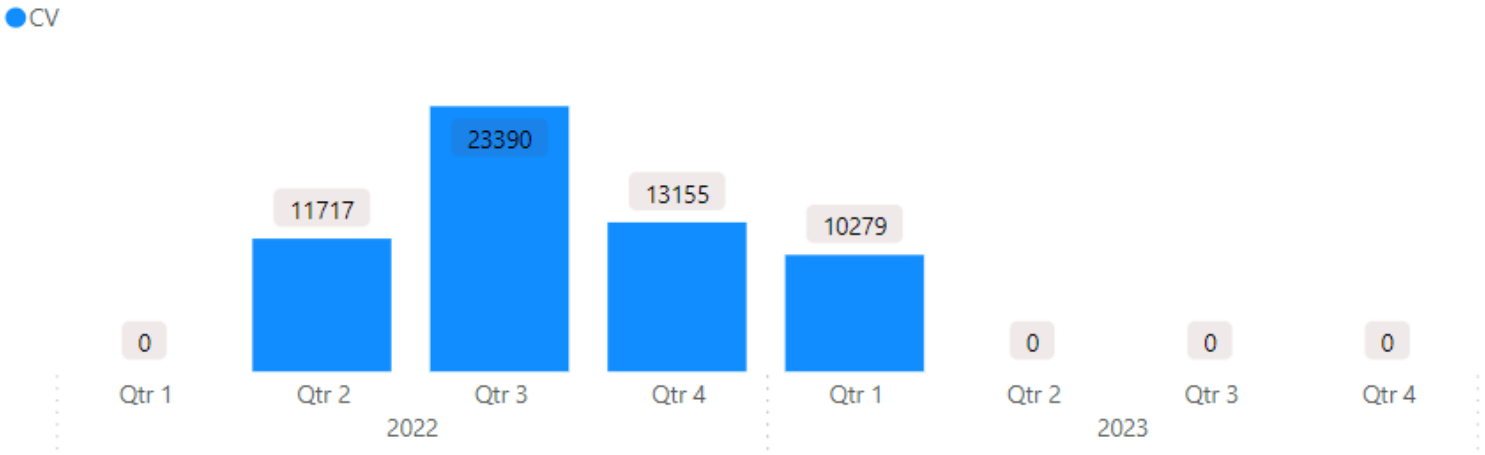
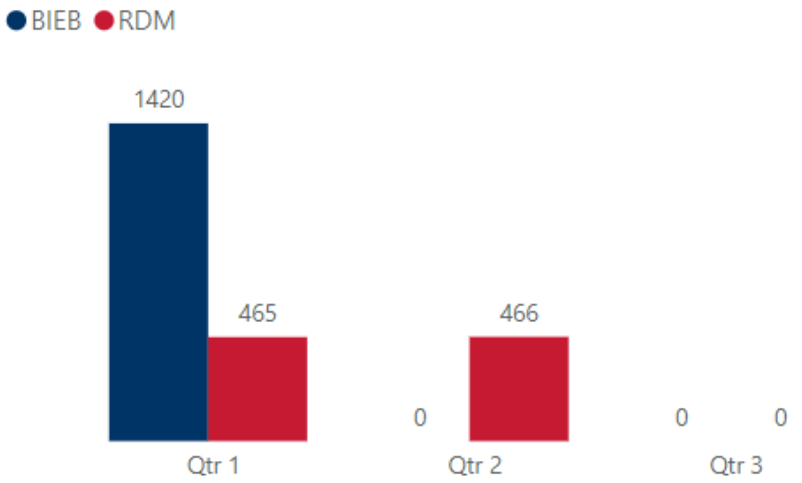
Actions | YTD	2023 Update
2351	Qtr 2

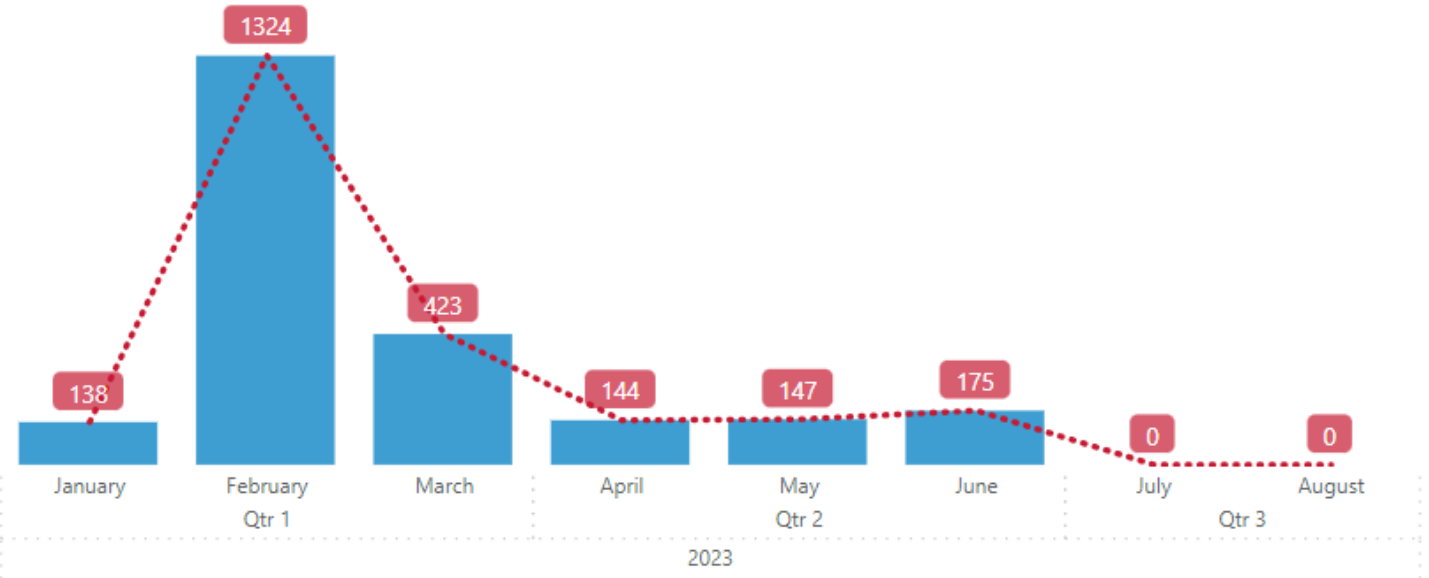
Quarterly overview | New ChinaID



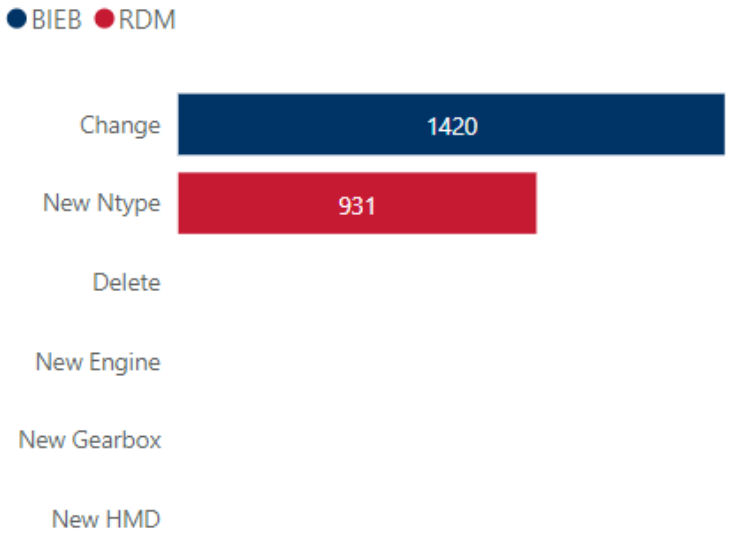
Quarterly Overview | Number of entry actions



Monthly Overview



Actions YTD | Number of entry actions



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Back

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OES Data Overview

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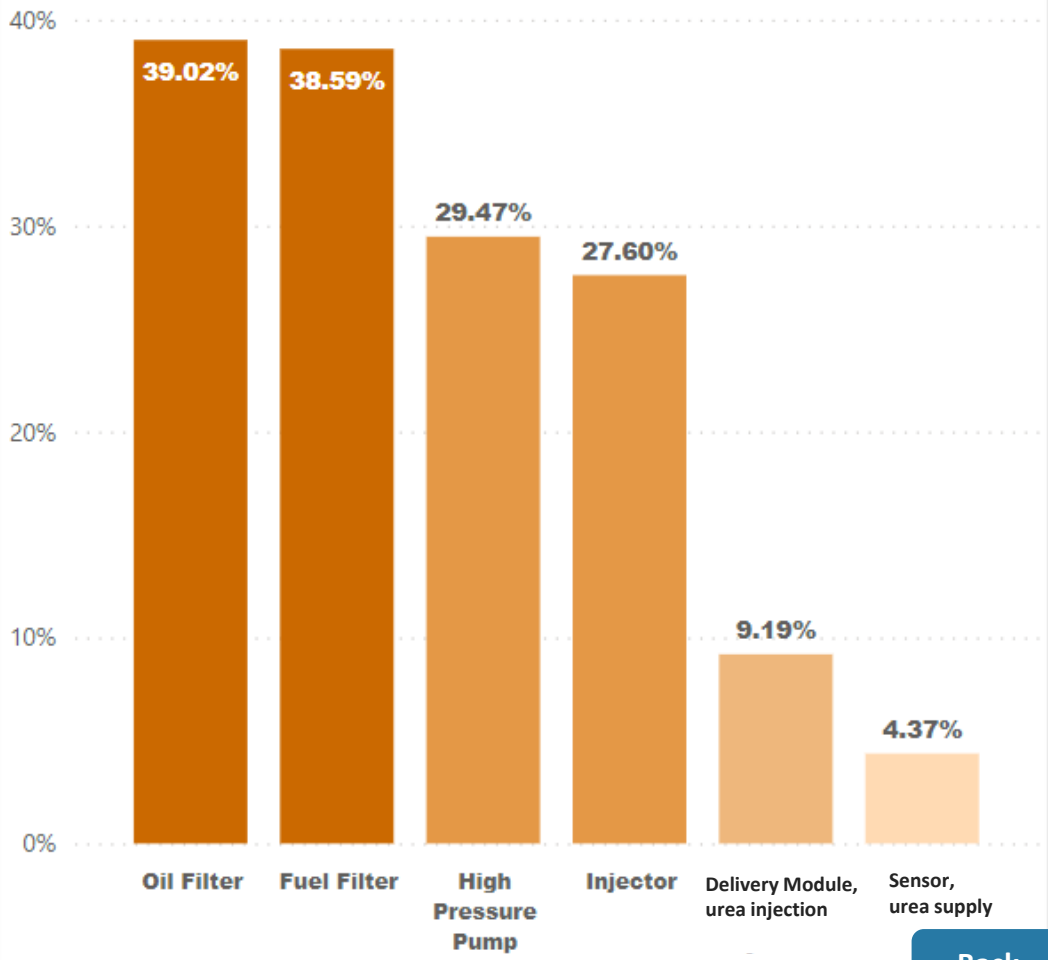
TACN PADS HCV DASHBOARD

VIO Coverage & GA Coverage for Engine Parts May 2023 Update

CHINA_ID Researched | YTD	Engine Manufacturer Covered | YTD
15097	2
OE Researched | YTD	**Engine Codes Covered | YTD**
297	308

Engine Parts Coverage to China ID base on VIO

Existing GA Coverage for Engine Parts



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Back

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03 Product & Solution

- Heavy Commercial Vehicle VIN number search - API

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Heavy Commercial Vehicle VIN number search - API

Heavy Commercial Vehicle VIN number search - API

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VIN → OE

Part of OE can be searched by VIN code

JIEFANG (FAW)	JIEFANG (QINGDAO)	DONGFENG	FOTON AUMAN
SINOTRUK (CNHTC)	JAC	HONGYAN	
SHAANXI	CAMC	DAYUN	

Data sample

VIN	LFNCRULX5GAD14620	Optional parameters
配件品牌	MEIRUIER	1
配件名称	#	1
配件型号	#	1
原厂配件型号	1109010-Q413	
原厂配件名	空气滤清器总成	
起始供货时间	2019-05-20T00:00:00	
截止供货时间		
安装数量	1	
批发价	349.00	
零售价	367.00	

*Note: The optional parameter marked 1 is a standard parameter

VIN → Vehicles

All vehicles can be searched by VIN code

Data sample

VIN	LFNCRULX5GAD14620	Optional parameters
China_ID_Short	QJ01000906H4099	1
品牌类型	国产	1
车系分类	中国品牌	1
厂商指导价	23.26万元(底盘价)	
厂家	青岛解放	1
品牌	解放	1
车系名称	悍威J5M	1
车型名称	悍威J5M	1
车型销售名称	解放 悍威J5M 6X2 厢式载货车	1
整车公告型号	CA5250XXYP1K2L7T3E4A80-3	1
车系停产年份		1
车系上市年份	2012	1
车身类型	专用车	
车身结构	载货车	1
驱动形式	6X2	1
总质量(t)	25	1
吨位级别	重型卡车	1
驾驶室形式		1
驾驶室类型	高顶	1
发动机生产企业	一汽解放汽车有限公司无锡柴油机厂	1
发动机品牌	锡柴	1
发动机	CA6DF4-24E4	1
发动机销售名	6DF4	1
燃料种类	柴油	1
排量	6.7	1
排放标准	国四	1
最大马力	240	1
最大输出功率(kW)	180	1
扭矩(N·m)	940	1
汽缸数	6	1
气门总数	24	1
发动机形式	直列	1
缸径	108	1
冲程	120	1
进气形式	涡轮增压	1
燃油喷射系统	高压共轨	1
燃油混合形式	缸内直喷	1
配气机构类型	底置凸轮轴	1

变速器生产企业	陕西法士特汽车传动集团有限责任公司	1
变速器品牌	法士特	1
变速箱	8JS118	1
变速器编号		
变速箱类型	手动	1
变速箱类型描述	手动变速器(MT)	1
变速箱档位数	8	1
底盘公告型号	CA1250P1K2L7T3BE4A80	
底盘品牌		
底盘车系		
底盘车型		
底盘名称		
上市年份(车系)-底盘		
停产年份(车系)-底盘		
总质量(t)-底盘		
前桥品牌		
前桥型号	A5S+A5S	
前桥允许载荷(kg)	6750/6750	
前车桥功能	转向桥	
后桥品牌	一汽解放	
后桥型号	435	
后桥允许载荷(kg)	11500	
后车桥功能	驱动桥	
轴距	1900+5650	
轴数	3	
前悬架类型	钢板弹簧	
后悬架类型	钢板弹簧	
前制动器规格		
后制动器规格	Φ400×200	
前制动器类型		
后制动器类型		
轮胎品牌		
轮胎类型	有内胎斜交胎,全钢有内胎子午胎,全钢无内胎子午胎	
轮胎规格	11.00-20,11.00R20,12R22.5	
轮胎尺寸	R20,R22.5	
轮胎数	8	
EBS电子制动系统		
ABS防抱死	有	
胎压监测		

*Note: The optional parameter marked 1 is a standard parameter

Heavy Commercial Vehicle VIN number search - API

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VIN→OE

VIN-OE API request and return field sample

方式: Post

参数

```
{
  "vin": "LGAX3C132K1011558",
  "responseType": "RAW",
  "itemName": "ABS",
  "pageSize": 100
}
```

名称	类型	必填	说明
vin	string	是	17位vin
responseType	string	否	数据返回形式
itemCode	string	否	原厂配件编码，精确查询
itemName	string	否	原厂配件名称，模糊查询
pageSize	int	否	每页数据条数

Result

```
{
  "count": 20,
  "parts": [
    {
      "stdCode": "C010304",
      "stdName": "车架线束总成",
      "itemCode": "3724560-KR410",
      "itemName": "车架ABS线束总成-主车",
      "dateFrom": "2018-08-13T00:00:00",
      "dateTo": null,
      "qty": 1,
      "price": 711.47,
      "retailPrice": null
```

名称	类型	可为空	说明
count	int	否	查询结果总条数
stdCode	string	是	配件标准名称代码
stdName	string	是	配件标准名称
itemCode	string	是	原厂配件编码
itemName	string	是	原厂配件名称
dateFrom	string	是	配件启用日期
dateTo	string	是	配件截止日期
qty	string	是	安装数量
price	number	是	批发价
retailPrice	number	是	零售价

Back

Heavy Commercial Vehicle VIN number search - API

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VIN→Vehicles

VIN-vehicle API request and return field sample

方式	Post				
参数	{ "Vin": "LGAX3C132K1011558" }	名称	类型	必填	说明
		vin	string	是	必须是17位vin

Result

```
{
  "stateCode": 200,
  "data": [
    {
      "cnid_short": "DD06000706H4005",
      "brand_type": "国产",
      "brand_series": "中国品牌",
      "guide_pm": "18.50万元",
      "make": "东风商用车",
      "brand": "东风",
      "model": "天锦KR",
      "type": "天锦KR",
      "trim": "东风 天锦KR 4X2 仓栅载货车",
      "vbc": "DFH5180CCYEX3",
      "model_sop": "2015",
      "model_eop": "",
      "body_type": "载货车",
      "axle_config": "4X2",
      "gvw": "18.00",
      "tl": "重型卡车",
      "driver_cf": "",
      "driver_ct": "高顶",
      "engine_make": "东风康明斯发动机有限公司",
      "engine_brand": "康明斯",
      "engine_code": "ISD230 50",
      "engine_trim": "ISD6.7",
      "fuel_type": "柴油",
      "capacity": "6.7",
      "es": "国五",
      "output_ps": "230",
      "output_kw": "169",
      "torque_nm": "900",
      "cylinder": "6",
      "total_valves": "24",
      "cylinder_f": "直列",
      "bore": "107",
      "stroke": "124",
      "air_source": "涡轮增压",
      "fuel_injection": "高压共轨",
      "e_mp": "缸内直喷",
      "e_camshaft_t": "底置凸轮轴",
```

	名称	类型	可为空	说明
	cnid_short	string	否	车辆代码
	brand_type	string	是	品牌类型
	brand_series	string	是	车系分类
	guide_pm	string	是	厂商指导价
	make	string	是	厂家
	brand	string	是	品牌
	model	string	是	车系名称
	type	string	是	车型名称
	trim	string	是	车型销售名称
	vbc	string	是	整车公告型号
	model_sop	string	是	车系上市年份
	model_eop	string	是	车系停产年份
	body_type	string	是	车身结构
	axle_config	string	是	驱动形式
	gvw	string	是	总质量(t)
	tl	string	是	吨位级别
	driver_cf	string	是	驾驶室形式
	driver_ct	string	是	驾驶室类型
	engine_make	string	是	发动机生产企业
	engine_brand	string	是	发动机品牌
	engine_code	string	是	发动机
	engine_trim	string	是	发动机销售名
	fuel_type	string	是	燃料种类
	capacity	string	是	排量
	es	string	是	排放标准
	output_ps	string	是	最大马力
	output_kw	string	是	最大输出功率(kW)
	torque_nm	string	是	扭矩(N·m)
	cylinder	string	是	汽缸数
	total_valves	string	是	气门总数
	cylinder_f	string	是	发动机形式
	bore	string	是	缸径
	stroke	string	是	冲程
	air_source	string	是	进气形式
	fuel_injection	string	是	燃油喷射系统
	e_mp	string	是	燃油混合形式
	e_camshaft_t	string	是	配气机构类型
	t_make	string	是	变速器生产企业
	t_brand	string	是	变速器品牌
	t_code	string	是	变速箱

```
      "t_make": "陕西法士特汽车传动集团有限责任公司",
      "t_brand": "法士特",
      "t_code": "8JS85E",
      "t_id": "",
      "t_type": "手动",
      "t_ds": "手动变速器(MT)",
      "t_gc": "8",
      "cbc": "",
      "c_brand": "",
      "c_model": "",
      "c_type": "",
      "c_trim": "",
      "c_sop": "",
      "c_eop": "",
      "c_gvw": "",
      "axle_make_f": "",
      "axle_code_f": "",
      "axle_load_f_kg": "6500",
      "axle_type_f": "转向桥",
      "axle_make_r": "",
      "axle_code_r": "",
      "axle_load_r_kg": "11500",
      "axle_type_r": "驱动桥",
      "wheelbase_mm": "5000",
      "axle_count": "2",
      "ws_type_f": "钢板弹簧",
      "ws_type_r": "钢板弹簧",
      "ws_ds_f": "钢板弹簧",
      "ws_ds_r": "钢板弹簧",
      "bs_f": "",
      "bs_r": "",
      "bt_f": "",
      "bt_r": "",
      "tyre_brand": "",
      "tyre_type": "全钢有内胎子午胎",
      "tyre_specification": "10.00R20 18PR",
      "rim_size": "R20",
      "tyre_count": "6",
      "s_ebs": "",
      "s_abs": "有",
      "s_aebs": "",
      "s_adas": "",
```

	名称	类型	可为空	说明
	t_id	string	是	变速器编号
	t_type	string	是	变速箱类型
	t_ds	string	是	变速箱类型描述
	t_gc	string	是	变速箱档位数
	cbc	string	是	底盘公告型号
	c_brand	string	是	底盘品牌
	c_model	string	是	底盘车系
	c_type	string	是	底盘车型
	c_trim	string	是	底盘名称
	c_sop	string	是	底盘上市年份
	c_eop	string	是	底盘停产年份
	c_gvw	string	是	底盘总质量(t)
	axle_make_f	string	是	前桥品牌
	axle_code_f	string	是	前桥型号
	axle_load_f_kg	string	是	前桥允许载荷(kg)
	axle_type_f	string	是	前车桥功能
	axle_make_r	string	是	后桥品牌
	axle_code_r	string	是	后桥型号
	axle_load_r_kg	string	是	后桥允许载荷(kg)
	axle_type_r	string	是	后车桥功能
	wheelbase_mm	string	是	轴距
	axle_count	string	是	轴数
	ws_type_f	string	是	前悬架类型
	ws_type_r	string	是	后悬架类型
	ws_ds_f	string	是	前悬架类型描述
	ws_ds_r	string	是	后悬架类型描述
	bs_f	string	是	前制动器规格
	bs_r	string	是	后制动器规格
	bt_f	string	是	前制动器类型
	bt_r	string	是	后制动器类型
	tyre_brand	string	是	轮胎品牌
	tyre_type	string	是	轮胎类型
	tyre_specification	string	是	轮胎规格
	rim_size	string	是	轮胎尺寸
	tyre_count	string	是	轮胎数
	s_ebs	string	是	EBS电子制动系统
	s_abs	string	是	ABS防抱死
	s_aebs	string	是	AEBS自动紧急制动
	s_adas	string	是	ADAS高级驾驶辅助
	s_tpms	string	是	胎压监测

Back

TecAlliance

TecDoc TecCom TecRMI

04 | Company News

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- We were awarded EcoVadis Sustainability silver medal for 2023
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Company News

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A newly-designed loading page has been applied to Standard SPA Catalogues

Our Standard SPA Catalogue is a vehicle & replacement parts search platform specially created for mobile ends. It does not only contain the comprehensive and accurate data and information of TecDoc Web Catalogue, but also supports those flexible functions on mobile devices, allowing workshops, dealers, sellers, and car owners to search for their needed parts anytime and anywhere. SPA Catalogue can deliver efficient user experience and thus lead to a remarkable sales increase at this Point of Sale.

While using TecDoc SPA Catalogue on mobile handsets, tablets, or other portable devices, users can identify the VIN code on a photo directly with the built-in OCR, so as to save time of manual input and reduce errors significantly. At present, after users take a snap and upload the photo of VIN code, a brand-new loading page will pop out, which will last until the results are presented. This update aims to pacify the anxiety of users waiting for OCR processing, improve user experience, and enhance their confidence in using the Catalogue.

This update applies to both our official TecDoc SPA Catalogue and customized brand SPA Catalogues. The demonstration of this new feature starts next slide.

Scan the QR code, follow our WeChat account and try out TecDoc SPA Catalogue!

Back

Company News

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1. Follow our WeChat account: tecalliance. Enter the SPA Catalogue. Click “VIN”. Click the camera icon on the left and click “Photo Library”, “Take Photo”, or “Choose File” to select the targeted VIN photo.

2. Edit, adjust, and upload VIN photo.

3. After the uploading step, a new loading page will appear, indicating that the photo is being processed by OCR.

4. When VIN identification is successfully completed, users will be led to the results page automatically.

Back

Company News

We were awarded EcoVadis Sustainability silver medal for 2023

We have again achieved the silver medal in this year's EcoVadis sustainability rating. This puts us in the top 25 of the more than 100,000 companies evaluated worldwide. We were once again able to improve compared to the previous year. The external evaluation underpins the credibility of our commitment to sustainability and confirms us as a reliable and responsible partner in the global automotive aftermarket.

EcoVadis is the world's largest provider of sustainability ratings for companies. Many of our partners and customers demand transparency for their supply chains with regard to sustainability and corporate social responsibility (CSR). The high rating from the external, internationally recognised rating specialist proves the success of the numerous measures that we have implemented in recent months. These include the introduction of a Global Code of Conduct that sets uniform standards for the behaviour of our employees and business partners worldwide. In addition, we have implemented a whistleblowing system to report and uncover potential violations of the Code of Conduct.

Another important tool for us to improve sustainability is the assessment of sustainability risks from our suppliers. Furthermore, we have implemented comprehensive measures to save CO2 and have set ourselves the goal of being CO2-neutral by 2030. E-learning courses and workshops for our teams have been introduced to raise awareness of sustainability and CSR.

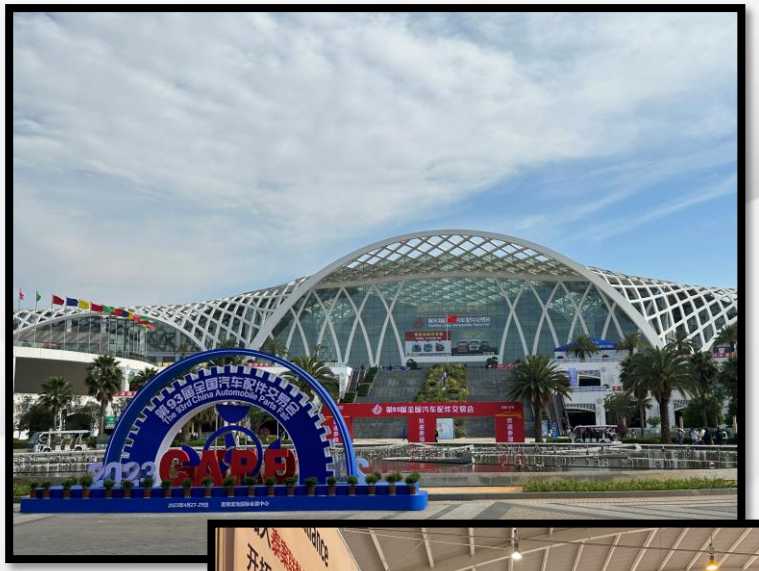
Back

Company News

We were popular at China Automobile Parts Fair

In the Spring City of Kunming in China, the 93rd China Automobile Parts Fair (CAPF) welcomed both domestic and overseas visitors, starting from April 27th. In our booth, we met with customers face to face on site. After getting hold of their daily operating situation, our professional sales team introduced our service portfolio in detail and proposed customized “solution packages” for meeting their business goals.

This year is all about making us more visible, and we were glad to find out that some customers paid a special visit to us after reading our exhibition announcement on WeChat (our account ID is tecalliance). They came to us with certain requests, believing that we have the high quality data and solutions that meet their expectation, just as one of our customers put it: “I’ve tried data provided by another company, which was far from satisfactory. Today in TecAlliance’s booth, I feel happy to talk directly and solve problems all together here.”

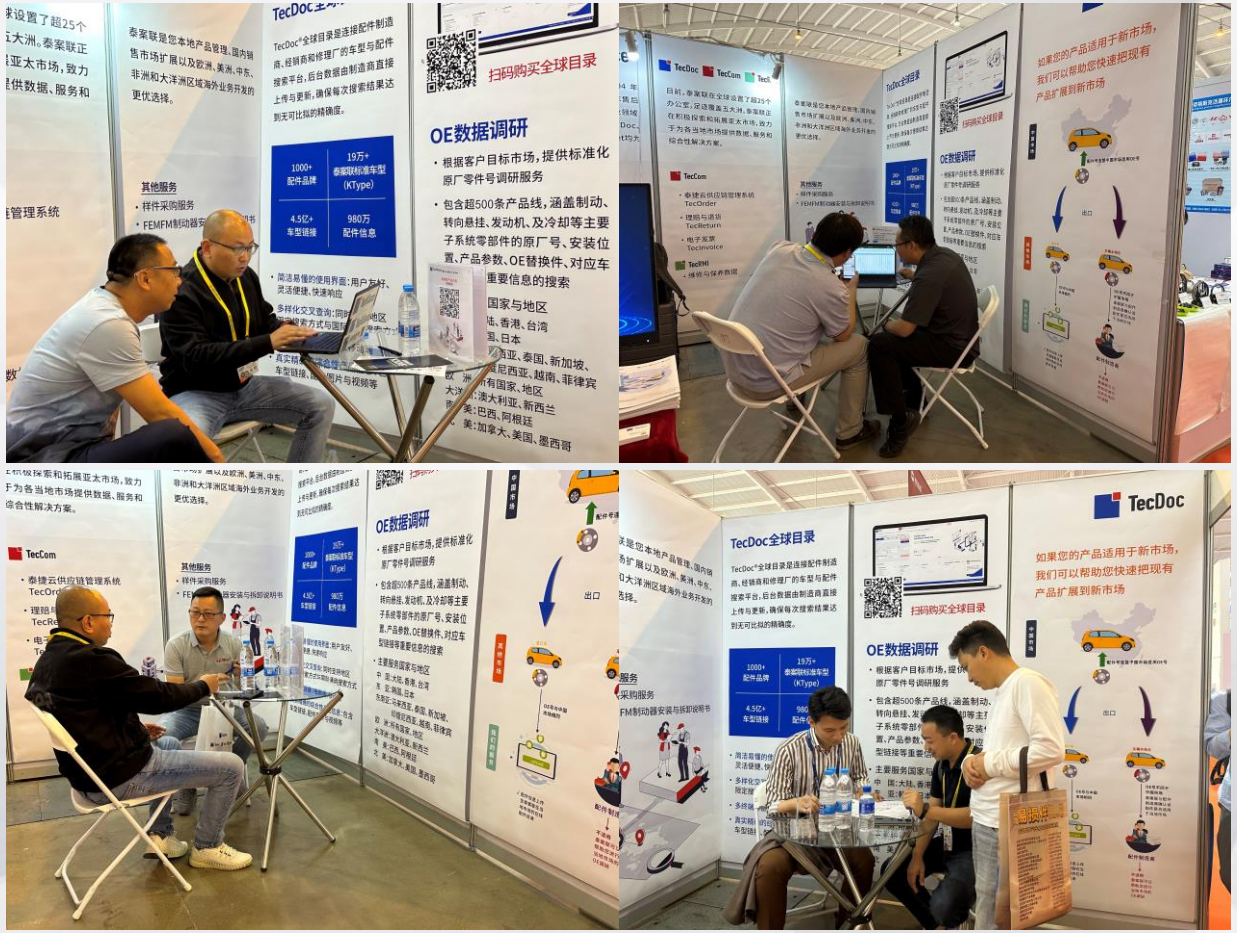


Back

Company News

CAPF marks the beginning of our exhibition season on Chinese Mainland. Our fully-mobilized team made comprehensive preparation for the show to receive customers, both old and new, to look for the potential of deeper cooperation.

We met dozens of visitors on a daily basis, and “going global” was one of the hotspot topics. After the global pandemic situation, Chinese enterprises were enthusiastic about expanding export business and succeeding in overseas markets, especially Southeast Asia, Middle East, Europe, and North America. Luckily, we got them all covered: with our foothold on every major continent, our locally hired team specialized in local markets, and our specially designed data sets and digital solutions applicable to different countries and regions, we make your global business sail fast and safe. If you are worrying about how to launch products in a new market, let us help you analyze and guide your first step with



Back

TecAlliance Marketing Campaign 2023

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2023.02.15 - 18	**Automechanika Shanghai/Shenzhen**, China
2023.03.07 - 09	**International Auto Aftermarket Expo (IAAE),** Tokyo , Japan
2023.03.29 - 30	**Flotte! Der Branchentreff**, Dusseldorf, Germany
2023.03.16 - 18	**Automechanika Kuala Lumpur 2023 (AMKL 2023)**, Malaysia
2023.04.05 - 08	**Thailand Auto Parts & Accessories 2023 (TAPA 2023)**, Bangkok
2023.04.12 - 15	**Taipei AMPA**, Taiwan
2023.04.27 - 29	**China Automobile Parts Fair,** kungming, Yunnan
2023.04.25 - 29	**Automec**, Sao Paulo, Brasilien
2023.05.24 - 26	**INAPA JAKARTA 2023 (Indonesia International Trade Show),** Jakarta Indonesia
2023.06.07 - 09	**Automechanika Birmingham, UK**
2023.06.23 - 25	**Automechanika HCMC 2023**, Ho Chi Minh City, Vietnam
2023.09.05 - 07	**Automechanika Johannesburg**, Sudafrika
2023.10.02 - 04	**Automechanika Dubai,** Vereinigte Arabische Emirate
2023.10.31 - 11.02	**AAPEX Show**, Las Vegas, USAZ
2023.11.29 - 12.02	**Automechanika Shanghai**, China

Back

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THANK YOU!

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