



210014113094

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# Guangdong Huizhou Testing Center for Petroleum Product Quality National Quality Testing Center for Petroleum and Petrochemical Products (Guangdong)

## TEST REPORT (No. 202113678/202113679)

**Sample Name:** Vehicle gasoline (Before adding additive) / Vehicle gasoline (After adding additive)

**Report page:** Page 1 Of 2

**Sample No.:** 202113678/202113679

**Sample Status:** Liquid

**Specification Type:** 95#(VI A)

**Sample Quantity:** About 2L

**Date of manufacture/Lot No.:** ——

**Approach Received:** ——

**Client self No.:** ——

**Date Received:** 2021/11/01

**Testing period:** 2021/11/02~ 2021/11/05

**Date Reported:** 2021/11/05

**Applicant & Address:** Jiangyin Huaheng Addictive Co., Ltd./No.298, fan qian road, hetang town, jiangyin city, jiangsu province, P.R.C.

**Criterion:** GB 17930-2016 《Vehicle gasoline》



No.	Test items	Test methods	Quality limits	Results	
				Before	After
1	Anti-knock characteristics: RON	GB/T 5487-2015	≥95	96.1	96.6
2	Lead content, g/L	GB/T 8020-2015	≤0.005	<0.0025	<0.0025
3	Distillation:	GB/T 6536-2010	——	——	——
	10% evaporation temperature, °C	——	≤70	58.7	60.4
	50% evaporation temperature, °C	——	≤110	99.3	101.6
	90% evaporation temperature, °C	——	≤190	165.4	166.2
	FBP, °C	——	≤205	199.0	195.1
	Residue, %(V/V)	——	≤2	1.1	1.1
4	Vapor pressure, kPa	SH/T 0794-2007	40~65	48.7	46.2
5	Gum content, mg/100mL	GB/T 8019-2008	——	——	——
	Unwashed gum content(Before adding detergent additive),mg/100mL	——	≤30	2.5	3.5
	Existed gum content, mg/100mL	——	≤5	1.5	2.0
6	Induction period, min	GB/T 8018-2015	≥480	>540	>540
7	Sulfur, mg/kg	SH/T 0689-2000	≤10	4.5	4.4
8	Mercaptan (Doctor test)	NB/SH/T 0174-2015	Pass	Pass	Pass
9	Copper corrosion(50°C,3h), classification	GB/T 5096-2017	≤1	1a	1a
10	Water-soluble acids and alkali	GB/T 259-1988	None	None	None

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中心地址: 广东省惠州市江北文明二路33号  
电话: 0752-2840711、2840723、2840712 传真: 0752-2840712 邮编: 516003  
中心网址: www.hzypzx.cn 邮箱: zhypzx@163.com 18088807723@163.com petrotest@hzypzx.cn



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## TEST REPORT (No. 202113678/202113679)

Report page: Page 2 Of 2

No.	Test items	Test methods	Quality limits	Results	
				Before	After
11	Mechanical impurities and water	Visual	None	None	None
12	Mn, g/L	NB/SH/T 0711-2019	≤0.002	<0.00025	<0.00025
13	Fe, g/L	SH/T 0712-2002	≤0.01	<0.0020	<0.0020
14	Density(20°C), kg/m <sup>3</sup>	SH/T 0604-2000	720~775	750.7	752.8

Note: Additive name: Drag Reducing Agent for Oil Products (HH-66), date of manufacture: 2021.09.28, HH-21092801, Gasoline number before adding additive: 202113678, Dosage: 100mg/kg, stir at high speed for 2 minutes.

### Conclusion:

All of the test results meet the standard of GB 17930-2016 《Vehicle gasoline》.

please refer to the table above.

批准:



审核:

*[Signature]*

主检:

*李文博*

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# Guangdong Huizhou Testing Center for Petroleum Product Quality National Quality Testing Center for Petroleum and Petrochemical Products (Guangdong) TEST REPORT

**Sample Name:** Vehicle diesel (Before adding additive)

/ Vehicle diesel (After adding additive)

**Sample No.:** 202113680/202113681**Specification Type:** 0#(VI)**Date of manufacture/Lot No.:** ——**Client self No.:** ——**Testing period:** 2021/11/02~ 2021/11/05**Applicant & Address:** Jiangyin Huaheng Addictive Co., Ltd. / No. 298, fan qian road, hetang town, jiangyin city, jiangsu province, P.R.C.**Criterion:** GB 19147-2016 《Vehicle diesel》**Report page:** Page 1 Of 2**Sample Status:** Liquid**Sample Quantity:** About 2L**Approach Received:** ——**Date Received:** 2021/11/01**Date Reported:** 2021/11/05

No.	Test items	Test methods	Quality limits	Results	
				Before	After
1	Oxidation stability (Calculated by total insolubles),mg/100mL	SH/T 0175-2004	≤2.5	0.5	0.3
2	Sulfur, mg/kg	SH/T 0689-2000	≤10	4.0	4.1
3	Acid number (Calculated as KOH),mg/100mL	GB/T 258-2016	≤7	3.57	3.62
4	10% distillation carbon residue, %(m/m)	GB/T 17144-1997	≤0.3	0.02	0.02
5	Ash, %(m/m)	GB/T 508-1985	≤0.01	0.001	0.001
6	Copper strip corrosion (50℃,3h), classification	GB/T 5096-2017	≤1	1a	1a
7	Water, %(V/V)	GB/T 260-2016	≤Trace	None	None
8	Lubricity	SH/T 0765-2005	——	——	——
	Corrected wear scar diameter (60℃), μm	——	≤460	404	403
9	Total contaminant, mg/kg	GB/T 33400-2016	≤24	2.5	3.5
10	Kinematic viscosity (20℃), m <sup>2</sup> /s	GB/T 265-1988	3.0~8.0	4.400	4.450
11	Solidification point, ℃	GB/T 510-2018	≤0	-10.5	-10.0
12	Cold filter plugging point, ℃	NB/SH/T 0248-2019	≤4	-7	-6
13	Flash point(Closed Cup), ℃	GB/T 261-2008	≥60	71.5	72.5
14	Cetane number	GB/T 386-2010	≥51	57.8	57.8
15	Distillation:	GB/T 6536-2010	——	——	——
	50% recovery temperature, ℃	——	≤300	270.0	269.7
	90% recovery temperature, ℃	——	≤355	326.0	325.8
	95% recovery temperature, ℃	——	≤365	340.6	340.3

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National Quality Testing Center for Petroleum and Petrochemical  
Products (Guangdong)  
TEST REPORT**

Report page: Page 2 Of 2

No.	Test items	Test methods	Quality limits	Results	
				Before	After
16	Density (20°C), kg/m <sup>3</sup>	SH/T 0604-2000	810~845	828.6	828.6
17	Fatty acid methyl esters, %(V/V)	NB/SH/T 0916-2015	≤1.0	<0.1	<0.1

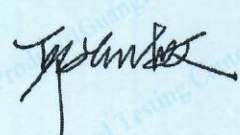
Note: Additive name: Drag Reducing Agent for Oil Products (HH-66), date of manufacture: 2021.09.28, HH-21092801, Diesel number before adding additive: 202113680, Dosage: 100mg/kg, stir at high speed for 2 minutes.

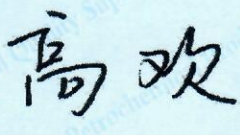
**Conclusion:**

All of the test items meet the standard GB 19147-2016 《Vehicle diesel》.

please refer to the table above.

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# Guangdong Huizhou Testing Center for Petroleum Product Quality

## TEST REPORT

**Sample Name:** Vehicle diesel (Before adding additive)  
/ Vehicle diesel (After adding additive)

**Report page:** Page 1 Of 1

**Sample No.:** 202113682/202113683

**Sample Status:** Liquid

**Specification Type:** 0号(VI)

**Sample Quantity:** About 1L

**Date of manufacture/Lot No.:** ——

**Approach Received:** ——

**Client self No.:** ——

**Date Received:** 2021/11/01

**Testing period:** 2021/11/02~ 2021/11/05

**Date Reported:** 2021/11/05

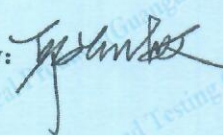
**Applicant & Address:** Jiangyin Huaheng Addictive Co., Ltd./ No. 298, fan qian road, hetang town, jiangyin city, jiangsu province, P.R.C.

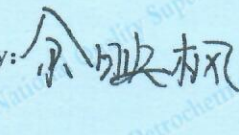
**Criterion:** ——

No.	Test items	Test methods	Quality limits	Results	
				Before	After
1	Cloud point, °C	GB/T 6986-2014	——	-5	-4
2	Water separation performance (20°C±1°C, 15min)	SH. HY-021-2015	——	Pass	Pass
3	Blocking tendency (20°C±1°C), min	SH. HY-020-2015	——	8.9	9.7
Note	1. Additive name: Drag Reducing Agent for Oil Products (HH-66), date of manufacture: 2021.09.28, HH-21092801, Diesel number before adding additive: 202113680, Dosage: 100mg/kg, stir at high speed for 2 minutes. 2. This report is only for internal quality control of the enterprise.				

please refer to the table above.

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中心地址: 广东省惠州市江北文明二路33号

电话: 0752-2840711、2840723、2840712

传真: 0752-2840712

邮编: 516003

中心网址: www.hzypzx.cn

邮箱: zhypzx@163.com

18088807723@163.com petrotest@hzypzx.cn