

# National Petroleum Products Quality Supervision and Inspection Center

## Test Report

Fuel oil : 0# Diesel Standard (IV)	Item No.: 2015102602
Consigner: Xunsn International Group	Test: The different of blend
Manufacturer: Xunsn International Group	Testing Standard: GB11 /239 - 2012
Testing date : 2015-10-15	Sample: Luquid, Brown
Sample Name: XSNANO Diesel additive (NDA)	Page : 1 / 1

Test Item	0# Diesel Non - XSNano	0# Diesel mixed XSNano	Standard
Color#, number	3.47	3.47	GB/T 6540
Cetane	51	52.2	GB/T 386
Cetane Index	46	47.1	GB/T 11139,SH/T0694
Procedure:			
10% evaporation temperature °C	288	288	GB/T 6536
50% evaporation temperature °C	335	335	
90% evaporation temperature °C	342	342	
Oxidation stability / (total insolubles) (mg / 100mL)	2.5	2.5	SH/T 0175
Sulfur content, mg / kg	19	19	SH/T 0689,GB/T 11140 ASTM D7039
Acidity (mgKOH / 100ml)	6.5	6.5	GB/T 258
10% distilled residue of carbon residue (wt)%	0.3	0.3	GB/T 268 GB/T 17144
Ash (mass fraction)%	0.01	0.01	GB/T 508
Copper corrosion (50 °C, 3h) / Grade	1	1	GB/T 5096
Water (volume fraction) /%	-	-	GB/T 260
Mechanical impurities	Nil	Nil	GB/T 511
Lubrication: Correction wear scar diameter, μm	460	460	SH/T 0765
PAHs (mass fraction) /%	10.6	10.6	SH/T0606
Kinematic viscosity (20 °C) (mm <sup>2</sup> / s)	2.5~7.5	2.5~7.5	GB/T 265
Freezing point / °C	0	0	GB/T 510
Cold filter plugging point / °C	4	4	SH/T 0248
Flash point (closed) / °C	57	57.8	GB/T 261
Density (20 °C) (kg / m <sup>3</sup> )	800~845	800~845	GB/T1884、GB/T 1885 SH/T 0604
Fatty acid methyl ester (volume fraction),%	0.5	0.5	GB/T 23801

\* Note: Since December 2014, the State of enforcement National IV emission standards, the sulfur content of not more than 50mg / kg; from December 2017, the implementation of country V standards, the sulfur content of not more than 10mg / kg.

\*\* Note: 2014, Beijing, Shanghai, Guangzhou, advance the implementation of country V standards; motor gasoline and diesel of V standards will advance to the national implementation of the end of 2016.

\*\* Note: Sample Name called by consigner. The center takes no responsibility for its.

2015/10/26