

## LHL X-100 Typical Properties

Test Performed		LHL X-100
Color		Yellow
Worked Penetration		460
Dripping Point	°C	180
Copper Corrosion ※	(100 °C/24hr)	Pass
Evaporation Loss	(99 °C/22h) w.t.%	0.31
Oil Separation	(100 °C/24hr) w.t.%	N/A
Oxidation Stability	(100 °C/100hr) kPa	5
Four Ball Test		<b>LNL</b> 1236
	newtons	<b>WL</b> 1569
		<b>LWI</b> 480
Base Thickener		Special Urea
Base Oil Viscosity	(40°C) mm <sup>2</sup> /s	114
	(100°C) mm <sup>2</sup> /s	12.2
Viscosity Index		97

※No change in color into green or black on copper plate is observed.

### Four Ball Test Terms:

#### LNL (Last Non-Seizure Load)

The maximum load under which the balls are lubricated well enough not to get any wear that is larger than 5% of the guaranteed wear in diameter under a given load. The maximum load under which the sample grease is lubricating properly.

#### WL (Weld Load)

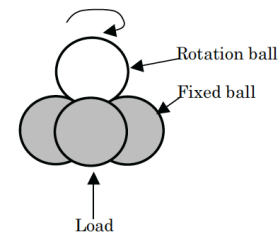
The minimum load under which the rotating ball is welded to the stationary balls.

#### LWI (Load Wear Index)

LWI is calculated by the formula based on the results of 10 times of WL test performed. LWI is an index indicating wear resistance of a sample grease in each range of the load applied for the test.

#### newton

The **newton** (symbol: **N**) is the International System of Units (SI) derived unit of force.



\*The wear scar of a fixed ball is measured.  
Figure 1 Shell four ball test (point contact)