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<b>Package- no.:</b>	<b>2</b>	Groz-Beckert KG
<b>Sample name:</b>	<b>FLUID-setral-KN 1436</b>	Oil-Support
<b>Sample number:</b>	00005	Theodor-Groz-Str. 56
<b>Kind of oil:</b>	New	72458 Albstadt
		Telefon: + 49 7431 10 3080
		Telefax: + 49 7431 10 2024
		oil-support@groz-beckert.com
		www.groz-beckert.com

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Setral  
Verena Schott  
  
Salzsteinstrasse 4  
  
82402 Seeshaupt  
Deutschland

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<b>Machine manufacturer:</b>	not specified	<b>Total evaluation:</b>
<b>Machine name:</b>	not specified	
<b>Machine type:</b>	not specified	
<b>Consumption of oil per machine and month:</b>	not specified	

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## Comment and advice:

The provided oil is according to the determined values equivalent to DIN 62 136.

It has a good viscosity index, meeting the requirements for cold start and in the warmed up knitting machine.

The provided needle oil has an excellent washability with the mentioned fabrics.

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Analysis results:

Basic data:

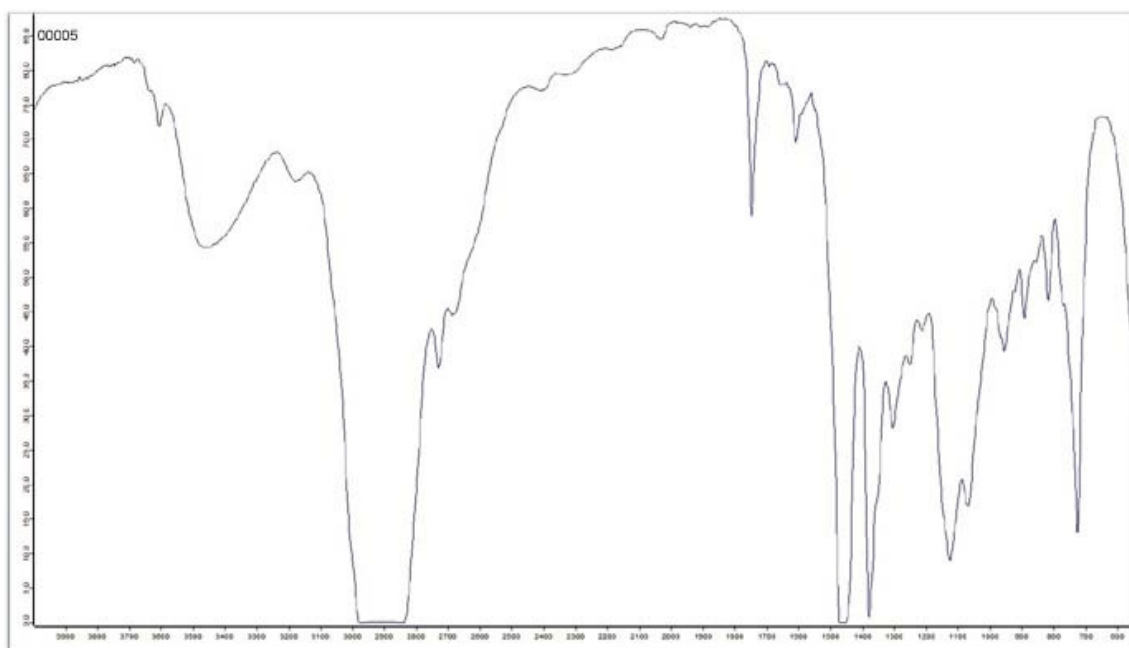
Verified to:

- ✓ Density (40 °C): 0,851 g/cm<sup>3</sup> according to DIN 51 757
- ✓ Viscosity (40 °C): 21,9 mm<sup>2</sup>/s DIN 51 550  
DIN 51 562-1
- ✓ Viscosity (100 °C): 4,4 mm<sup>2</sup>/s DIN 51 550  
DIN 51 562-1
- ✓ Flashpoint: 206 °C DIN ISO 2592
- ✓ Pourpoint: -6 °C DIN ISO 3016
- ✓ Look: bright yellowish
- ✓ Odour: typical

✓ Look:



✓ IR-Spectrum:



✓ values are okay    ✓ values at limit range or small variations    ✗ values are not okay

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**Analysis results:**

<b>Pollutions:</b>		verified to
✓ <b>Water content:</b>	353 ppm	DIN 51 577-1

<b>Performance data:</b>		verified to:
✓ <b>Viscosity index:</b>	113	DIN 62 136
✓ <b>Load carrying capacity:</b>	1100 N	DIN 62 136
✓ <b>LCC friction coefficient:</b>	0,3	DIN 62 136
✓ <b>ET friction coefficient:</b>	0,07	DIN 62 136
✓ <b>Wear mark:</b>	0,57 mm	DIN 62 136

<b>Compatibility:</b>		verified to:
✓ <b>Copper corrosion:</b>	1a no corrosion	DIN 62 136
✓ <b>Steel corrosion:</b>	no corrosion	DIN 62 136

**Corrosion**



✓ values are okay    ✓ values at limit range or small variations    ✗ values are not okay

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<b>Sample number:</b>	00005	
<b>Kind of oil:</b>	New	

**Analysis results:**

**Performance data:**

Washability of <small>verified to DIN 62 136</small>	Washability in per cent	Washing agent	Test temperature in °C
✓ <b>Cotton:</b>	90	Felasan RGN	50
✓ <b>Silk:</b>	100	Felasan RGN	30
✓ <b>Viscose:</b>	90	Felasan RGN	40
✓ <b>Polyacrylnitrile:</b>	100	Felasan RGN	40
✓ <b>Polyester:</b>	90	Felasan RGN	50
✓ <b>T-Shirt (bleached):</b>	90	Felasan RGN	50
✓ <b>Cotton with 8 % Elasthan:</b>	90	Felasan RGN	50
✓ <b>Polyamide:</b>	100	Felasan RGN	50
✓ <b>Wool:</b>	90	Felasan RGN	30

**Used textiles by customer:** not specified

✓ values are okay  
 ✓ values at limit range or small variations  
 ✗ values are not okay