

# Shell Vitrea Oils

## Premium quality industrial oils



Shell Vitrea Oils are premium quality, solvent refined, high viscosity index mineral oils for a wide range of industrial applications.

### Applications

- *Plain and rolling element bearings*
- *Enclosed spur, helical, bevel & worm gearboxes where a non-additive mineral oil is approved by the gear manufacturer*
- *Machine tool circulatory systems*
- *Vitrea Oils may be used in industrial applications where loadings and temperatures are moderate.*

### Performance Features and Benefits

- *Good water shedding properties.*
- *Long life in circulatory systems.*

### Specification and Approvals

C according to DIN 51517-1  
VB/VC according to DIN 51506

### Seal & Paint Compatibility

Vitrea Oils are compatible with all seal materials and paints normally specified for use with mineral oils.

### Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

### Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Shell representative.

### Protect the environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

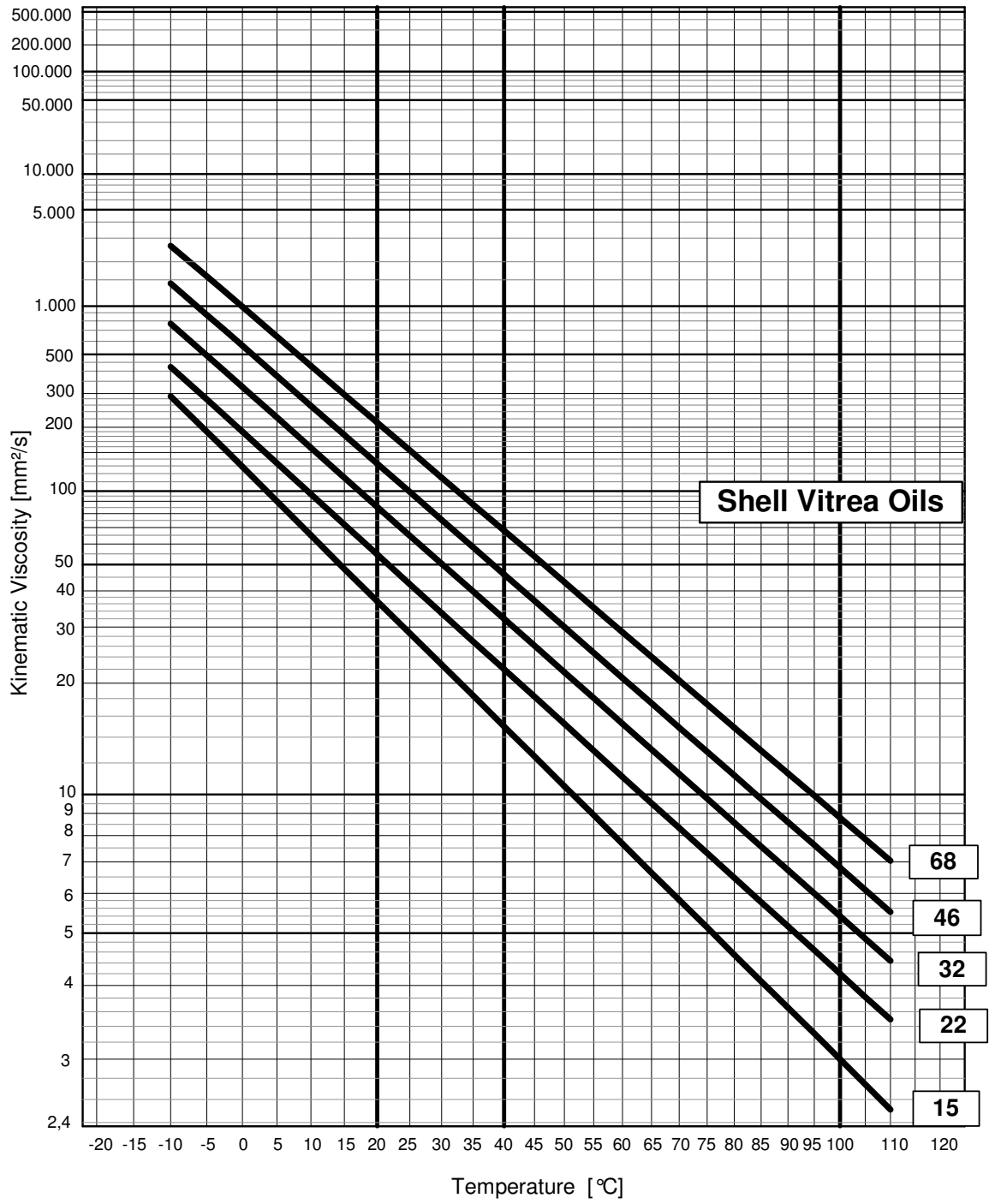
### Typical Physical Characteristics

Vitrea		15	22	32	46	68	100	150	220	320	460
ISO viscosity Grade	ISO 3448	15	22	32	46	68	100	150	220	320	460
Kinematic Viscosity	ASTM D 445										
at 40°C	mm <sup>2</sup> /s	15	22	32	46	68	100	150	220	320	460
at 100°C	mm <sup>2</sup> /s	3	4,2	5,4	6,8	8,8	11,2	14,8	19,2	24,6	31,0
Viscosity Index	ISO 2909	72	80	100	100	95	95	95	95	95	95
Density at 15°C	kg/m <sup>3</sup>	870	866	868	873	881	877	882	887	891	896
Flash Point COC	°C	165	204	222	228	223	225	243	249	255	260
Pour Point	°C	ISO 3016	-30	-18	-12	-12	-12	-12	-9	-9	-9

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

# Viscosity - Temperature - Diagram

Oil B in [%] 100 90 80 70 60 50 40 30 20 10 0  
0 10 20 30 40 50 60 70 80 90 100 Oil A in [%]



# Viscosity - Temperature - Diagram

