SHELL ROTELLA® WEAR METAL COMPARISONS

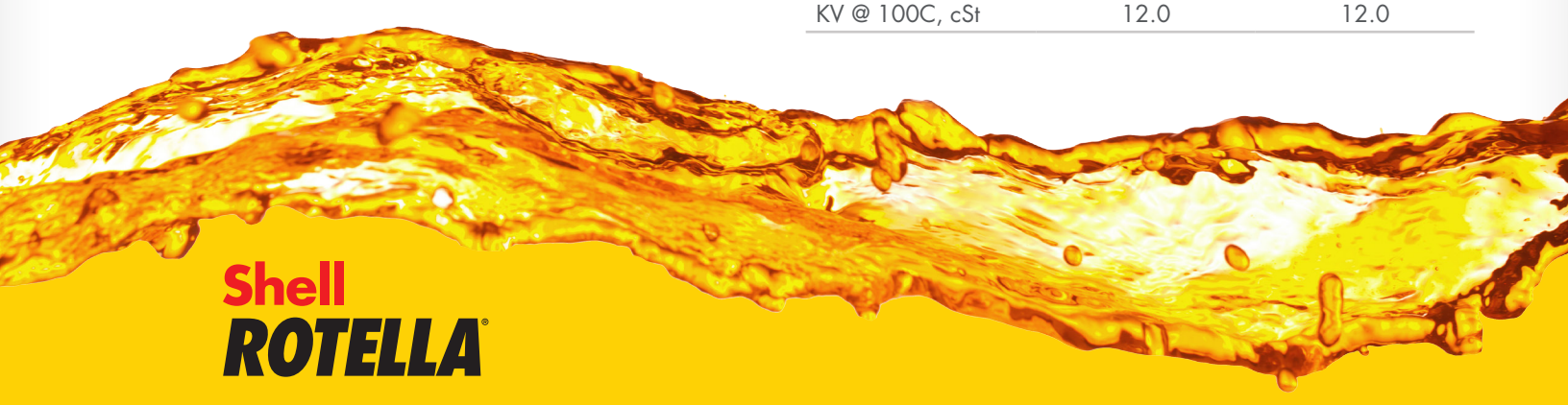
Shell ROTELLA® has launched the most technically advanced Rotella ever, exceeding API CK-4 and FA-4 performance standards. The new formulations with API CK-4 and FA-4 licensing have differences from the legacy formulations, which will be seen in oil analysis results. The chemical changes that may be observed are found below.

Typical Properties	CJ-4 ROTELLA® T6 5W-40	CK-4 ROTELLA® T6 5W-40
Calcium, ppm	820	2110
Magnesium, ppm	1160	83
Zinc, ppm	1280	1205
Phosphorous, ppm	1160	1099
Molybdenum, ppm	65	0
Boron, ppm	70	201
TBN D2896	10.6	10.1
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	14.2	15.0

Typical Properties	CJ-4 ROTELLA® T5 15W-40	CK-4 ROTELLA® T5 15W-40
Calcium, ppm	1870	1806
Magnesium, ppm	425	408
Zinc, ppm	1308	1272
Phosphorous, ppm	1109	1146
Molybdenum, ppm	64	65
Boron, ppm	223	150
TBN D2896	9.6	10
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	15.5	14.9

A copy of the product technical data sheets may found at www.epc.shell.com

Typical Properties	CJ-4 ROTELLA® T5 10W-30	CK-4 ROTELLA® T5 10W-30
Calcium, ppm	1870	2209
Magnesium, ppm	425	0
Zinc, ppm	1308	1206
Phosphorous, ppm	1109	1099
Molybdenum, ppm	64	0
Boron, ppm	223	205
TBN D2896	9.6	10.1
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	12.0	12.0



Shell ROTELLA®

The Engine Oil That Works As Hard As You.™

Typical Properties	CJ-4 ROTELLA® T4 TP 15W-40	CK-4 ROTELLA® T4 TP 15W-40
Calcium, ppm	2340	2209
Magnesium, ppm	0	0
Zinc, ppm	1210	1206
Phosphorous, ppm	1110	1099
Molybdenum, ppm	0	0
Boron, ppm	35	205
TBN D2896	10.1	10.1
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	15.5	15.0

Typical Properties	CJ-4 ROTELLA® T4 TP 10W-30	CK-4 ROTELLA® T4 TP 10W-30
Calcium, ppm	1870	1806
Magnesium, ppm	425	408
Zinc, ppm	1308	1272
Phosphorous, ppm	1109	1146
Molybdenum, ppm	64	65
Boron, ppm	223	150
TBN D2896	9.6	10
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	12.0	12.1

Typical Properties	CJ-4 ROTELLA® T3 15W-40	CK-4 ROTELLA® T3 Fleet 15W-40
Calcium, ppm	1870	1806
Magnesium, ppm	425	408
Zinc, ppm	1308	1272
Phosphorous, ppm	1109	1146
Molybdenum, ppm	64	65
Boron, ppm	223	150
TBN D2896	9.6	10
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	15.5	15.35

Typical Properties	CJ-4 Rimula® Super 15W-40	CK-4 Shell T2 HD 15W-40
Calcium, ppm	1120	1059
Magnesium, ppm	1061	1001
Zinc, ppm	1326	1262
Phosphorous, ppm	1135	1146
Molybdenum, ppm	66	65
Boron, ppm	0	0
TBN D2896	9.5	10
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	15.5	15.35

Typical Properties	NEW ROTELLA® T6 Multi Vehicle 5W-30	NEW ROTELLA® T5 Ultra 10W-30
Calcium, ppm	1249	2110
Magnesium, ppm	756	83
Zinc, ppm	823	1205
Phosphorous, ppm	761	1099
Molybdenum, ppm	0	0
Boron, ppm	201	201
TBN D2896	11	10.1
Sulfated Ash, %	1.0	1.0
KV @ 100C, cSt	12.1	9.8

The term 'Shell Lubricants' collectively refers to individual Shell Group companies engaged in the lubricants business throughout the world. These are separate and distinct entities. The collective expressions 'Shell' and 'Shell Lubricants' may be used herein for convenience where reference is made in general to those companies or where no useful purpose is served by identifying any particular company or companies.

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