

# 1601-1609 TECHNICAL DATA

## PHYSICAL CHARACTERISTICS-TYPICAL:

	<u>1601</u>	<u>1602</u>	<u>1603</u>	<u>1604</u>	<u>1605</u>	<u>1606</u>	<u>1607</u>	<u>1608</u>	<u>1609</u>
ISO VG	46	68	100	150	220	320	460	680	1000
SAE Grade	75W	80	85	90	110	140	190	250	250
AGMA Grade	1 EP	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP	8A EP
Gravity, °API	30.2	29.8	29.5	29.3	28.4	27.9	27.7	27.4	27.0
Sp. Gravity	0.880	0.882	0.884	0.885	0.890	0.887	0.889	0.890	0.898
Viscosity,									
cSt @ 40°C	44.15	70.75	104.0	156.0	229.0	332.5	480.0	707.5	1015.0
cSt @ 100°C	6.98	9.44	12.31	16.42	21.20	27.90	37.00	47.50	62.10
Viscosity Index	116	111	110	111	110	113	118	116	120
Color	Purple	Purple	Purple	Purple	Purple	Purple	Purple	Purple	Purple
Flash Point, °F (°C)	410 (210)	410 (210)	410 (210)	410 (210)	410 (210)	410 (210)	415 (213)	420 (216)	415 (213)
Pour Point, °F (°C)	-27 (-33)	-17 (-27)	-11 (-24)	-11 (-24)	-11 (-24)	-6 (-21)	-6 (-21)	5 (-15)	5 (-15)

## PERFORMANCE TEST RESULTS:

Timken OK Load, lbs (kgs)	75 (34)	75 (34)	75 (34)	75 (34)	75 (34)	75 (34)	75 (34)	75 (34)	75 (34)
4-Ball Wear, mm	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
4-Ball Weld Pt, kg	400	400	400	400	400	400	400	400	400
Load Wear Index, LWI	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
Copper Corrosion @ 121°C	1b	1b	1b	1b	1b	1b	1b	1b	1b
Rust Prevention,									
Syn Sea Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq I, II, III	0,0,0	0,0,0	0,0,0	0,0,0	0,0,0	0,0,0	0,0,0	0,0,0	0,0,0
FZG Fail Stage	14+	14+	14+	14+	14+	14+	14+	14+	14+

## MEETS THE PERFORMANCE OF:

AGMA 9005 E02  
API GL-5  
USDA H2  
MIL-L-2105E

US Steel 224  
DIN 51517 Part 3  
AGMA 250.04  
ISO 12925 Type CKD

David Brown Type E  
Bucyrus International, Inc.



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