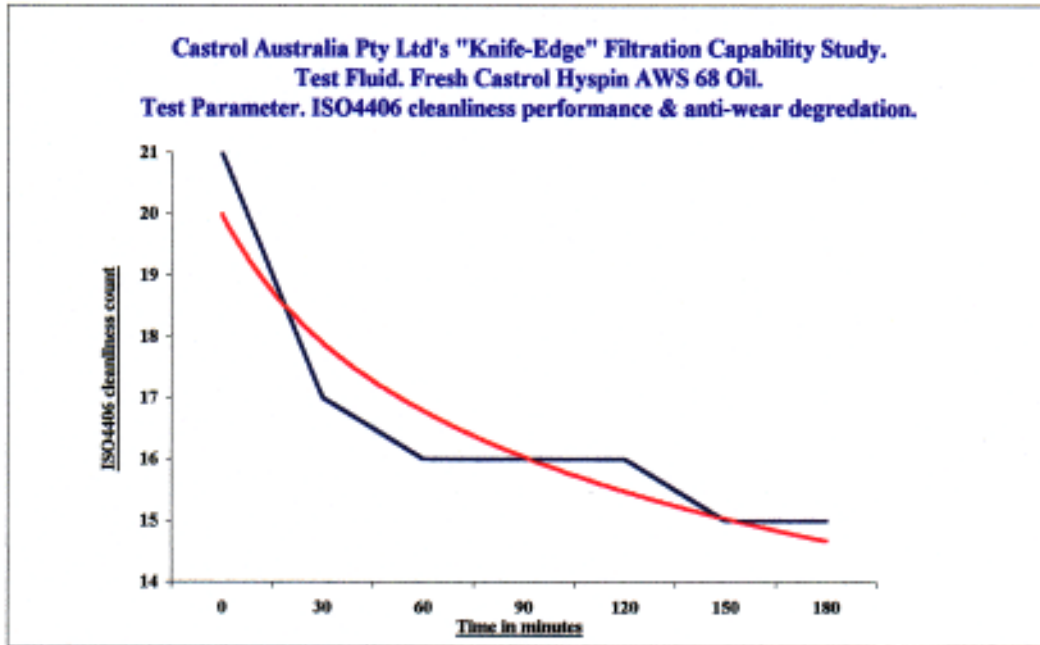




Filtration Capability Studies : Castrol Australia

Study No 1



ISO 4406 Cleanliness results: Item 1. [Note trend line.]

Zinc concentration results: Item 2.

0	21/18	0.054
30	17/13	0.054
60	16/12	0.052
90	16/12	0.051
120	16/12	0.051
150	15/11	0.051
180	15/11	0.051

Minutes Count Zinc cont'

Test information as at 16/2/00

Fresh oil sample collected from randomly selected new 205L drum of oil.

Oil was recycled continuously through FTA "Knife-Edge" filters.

Items 1 & 2 were measured at each 30 minute interval.

1. ISO4406 cleanliness standard.

2. Zinc [anti-wear] content.

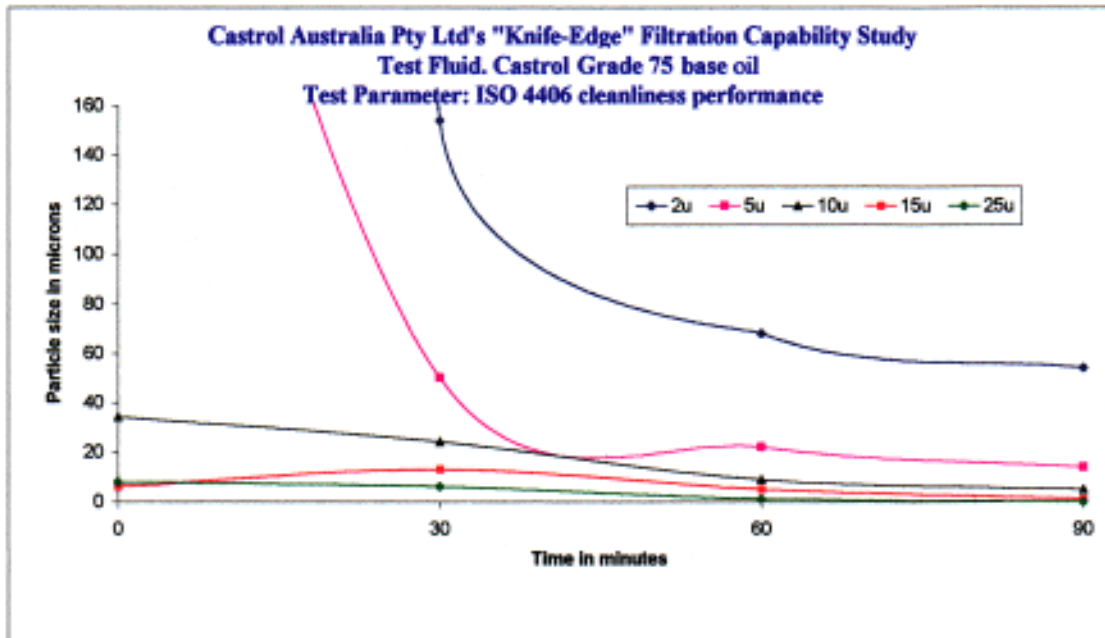
Conclusions:

Cleanliness: Filtration improved cleanliness by 6 ISO4406 grades.

Zinc content: [Anti-wear] Filtration caused minimal impact.

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Study No 2



	Time in minutes			
	0	30	60	90
2u	2563	154	68	54
5u	389	50	22	14
10u	34	24	9	5
15u	6	13	5	1
25u	8	6	1	0
50u	0	0	0	0
ISO 4406 count	19/16/10	14/13/11	13/12/09	13/11/07

Test information as at 17/11/99

Fresh oil was taken from randomly selected 205L drum of oil .
 Oil was recycled continuously through FTA "Knife-Edge" filters.
 Particle count of shown particle sizes was measured each 30 mins.
 Equivalent ISO grade was measured at each 30 mins.
 Sample volume size: 30ml
 Flow rate: 50ml/min
 Reported values: Counts/ml
 Test equipment: Vickers Target-Pro

Result:

Cleanliness improved, 6 ISO4406 grades. {13/11/07 is extremely clean oil.}