



JQ440 Filtration System, Injection Moulding Machine : Viscount Plastics

Viscount Plastics

Viscount Plastics fitted a JQ440 filtration system to their Battenfeld 850 injection moulding machine to evaluate Filter Technology systems. Their aim was to lower the particle count and, in turn, extend machine component life and uptime.

Fitting was on 25 November 1999 where sample 17100 shows an ISO level of 19/15. After 1076 hours of operation with the filtration system in place, the oil returned an ISO of 12/9.

1000 hours was set as the benchmark for element changes and the system was then taken over by Viscount. It is reported to be still returning good results and servicing is still done at 1000 hours. This improvement of seven ISO codes is a reduction of 98% of the contamination in the system.



Client	Filter Technology Australia Pty Ltd / Leopold	Site	Viscount Plastic Braeside
Contact	John Maguire	Unit ID/Name	#V10 Inj Moulder / Injection Moulding Machine
Address	33 Townview Court Leopold, VIC 3224	Manufacture/Model	Battenfeld / 850 I
Telephone	(03) 5250 1219	Origin	Reservoir - Machine # V10
Fax	(03) 5250 4519	Fuel/Oil Type	Valvoline 68

Diagnosis:							
Ok. OK.							
	Sample Number	19350	17921	17394	17100		Indicative Levels
	Date	10/03/2000	21/01/2000	07/12/1999	25/11/1999		
	Total Hours/Km	4052.00		3252.00	2976.00		
	Hours/Km on Oil	1076.00		276.00	2976.00		
	Oil Changed	NO	NO	NO	NO		
	Oil Added	10		N/K	10ltrs		
Condition Tests	Fuel Dilution (%)						
	WT Solids (%)						
	Volume Water (%)	ND	ND	ND			
	Water PPM						
	Viscosity @ 40C (cST)	51.00	51.00	47.00			
	TAN (mg/KOH/g)	0.83	0.63	0.62			
	TBN (mg/KOH/g)						
Wear Metals	Aluminum (Al)	0	<1	<1			
	Silicon (Si)	0	<1	<1			
	Tin (Sn)	0	<1	<1			
	Iron (Fe)	2	<1	<1			
	Lead (Pb)	0	<1	<1			
	Copper (Cu)	3	<1	2			
	Chromium (Cr)	1	1	2			
	Sodium (Na)	0	1	<1			
	Zinc (Zn)		N/A	N/A			
Cleanliness	ISO4406	12/9	16/13	15/12	19/15		
	Gravi-Metric						
	>2 micron	87.00	1127.00	797.00	8058.00		
	>5 micron	32.00	416.00	294.00	2978.00		
	>15 micron	3.00	44.00	31.00	317.00		
	Contamination	Low	Moderate	Low	Elevated		