



BEYOND BARRIER FILTRATION

Magnum™ stuns cement truck owners

Magnum™ Technology continues to show its ability to significantly improve the reliability of off-highway and heavy truck equipment on both the transmission and hydraulic systems. This is achieved through dramatic improvements in fluid cleanliness. For example, after US Magnum™ distributor GP Services Inc. installed the Magnum™ on the Allison transmission of a large cement truck, the Fe levels were reduced by over 60% and the wear metals were dramatically reduced as well (including Cu, Pb and Al). This is simply because the removal of the fine ferrous contamination that would normally pass through the conventional filters stops the chain reaction of wear that would normally create further non-magnetic and magnetic contamination. In practice this yields longer equipment life and lower downtime.



PROGRESSIVE OIL SAMPLE TESTING CUSTOMER REPORT

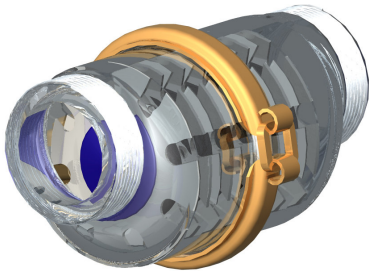
CUSTOMER NUMBER:
UNIT NUMBER:
PHONE NUMBER:
RECEIVED DATE:

EQUIPMENT: ALLISON ADVANCE
SENDER: NORTH
SAMPLE FROM: TRANSMISSION
PRODUCT: VALVOLINE
SAE:

SAMPLE DATE: 11/22/04

LAB. NO.	PHYSICAL TESTS					WEAR METAL, PPM					ADDITIVES AND OTHER METALS, PPM														
	VISCOSITY @51.100°C	SAE GRADE	FLU. @50°C	FLU. @100°C	WATER (PPM)	CHROMIUM	COPPER	IRON	LEAD	TIN	ALUMINUM	SILICON (DIRT)	ANTHONY	BARIUM	BORON	CADMIUM	CALCIUM	MAGNESIUM	MOLYBDENUM	NICKEL	PHOSPHORUS	SILVER	SODIUM	TITANIUM	ZINC
1	CS300	5.1	10	2.0	NNN	0	17	380	8	14	4	1	22	0	90	0	952	7	1	0	468	0	8	0	399
2	H339B	4.9	10	0.0	NNN	0	21	338	11	15	6	7	23	0	95	0	1154	10	1	1	545	0	9	0	399
3	R8057	4.7	10	0.0	NNN	0	38	314	13	8	14	9	23	1	111	0	657	3	1	0	476	0	11	0	176
4	B8090	4.8	10	0.0	NNN	0	65	661	13	21	15	7	6	0	93	0	468	3	1	0	389	0	8	0	79
5	CP450B	3.5	10	0.0	NNN	0	31	265	6	4	7	5	24	0	116	0	355	1	1	0	378	0	7	0	41

Magnum™ Boiler Buddy is born for water systems



The Magnum™ technology is currently employed in Powerflushing equipment by Fernox. After a 6 month product design and evaluation cycle FCS is pleased to announce the finalisation of the specification of the Magnum™ Boiler Buddy. The unit has been designed to protect domestic central heating systems from harmful rust, a growing problem as legislation drives more and more efficient boilers which are in turn more and more susceptible to failure through contamination. Industry focus groups organised by Fernox, the market leader for central heating additives in the UK and FCS' chosen partner for delivering the Magnum™ into this market, drove the need for the Magnum™ to be clear for condition monitoring, easily cleanable and capable of holding large amounts of magnetite. Jobey Marlowe, FCS Technical Director designed an injection moulded unit that met all of these goals and can sustain 6 bar g of pressure at 80degreesC with 1 1/2" male BSP plumbing connectors. The Boiler Buddy will be available from August, to pre-order or for specifications please contact tom.hulme@fluidcs.com

Magnum™ in Cold Rolling Process...

Magnum™ customer Formflo produce transmission syncro rings for a range of manufacturers. Part of their production is a cold rolling process during which small ferrous particles are produced which contaminate the rolling fluid and find their way into the bearings on the machines. This results in a loss of production and downtime. Initially a Magnum™ unit was fitted to one machine to reduce the usage of consumable filter media. A Magnum™ Clear 5" HT unit was fitted which filled very rapidly, resulting in the need for more frequent cleaning than was anticipated. To extend the intervals between cleaning the 5" was replaced with a Magnum™ Clear 10" HT Unit (see right). Savings on consumable cartridges were calculated at £150 per month, on this alone payback on the Magnum™ 10"HT was less than 4 months. Magnoms™ have now been fitted to all 9 cold rolling lines and its usage is being extended to the broaching machines within the factory.

Matt Stubbs of Formflo said "Filtration of rolling oil has been a real problem for many years; customers are driving higher cleanliness levels which usually incur higher and higher costs. Magnum™ has provided a low cost solution to the problem with a payback in under 4 months and no ongoing consumable costs! I will certainly be buying Magnoms™ again and am looking for other applications in the factory for their introduction."



Magnum™ further success in mining



Peruvian Magnum™ distributor, Betko Peru, has installed a 2" Process Unit on a hydraulic filter trolley for Yancho Mining. The filter cart is used to fine filter all the mine's hydraulic equipment, subject to initial feedback being proven Yancho expect to install Magnum™ units on all of the hydraulic equipment in the mine. Betko Peru has focussed predominantly on the mining sector and has had particular success on both mobile and static gearbox hydraulic systems

www.magnum.com

FCS is presently redesigning the Magnum™ web-site, if you have any ideas or suggestions regarding this or any other FCS marketing collateral please contact Marketing Manager Marcus Taylor at marcus.taylor@magnum.com or on the numbers below

Malaysian Magnum™ launch

FCS Sales Director David Dyas joined Malaysian Magnum™ Distributor Sense Services at their official launch of the Magnum™ technology. This was at the Metaltech 2005 in KL. Sense are now working through the 175 qualified leads that they received at the show, their success was partly due to the Magnum™ display loaned to them by FCS but also because they gave out Magnum™ specification charts to all interested parties

