FM2 Bypass Oil Filter Metering Valve, John Deere 450 LC : JR Hale Contracting, Albuquerque

JR Hale Contracting, Albuquerque, New Mexico installed a Kleen System KS-100A-FM2 metering valve to FTA FM 2 bypass oil filter to their John Deere 4500 LC Excavator.

The KS-100A-FM 2 was installed with 2219 hours on the John Deere 450 LC ISO level report below indicate the oil at 19/17/14, after installation of the Kleen System the oil was re sampled at 2289 hours and found to be at ISO 18/16/13 a 63% reduction in particulate contamination.

JR Hale have now several machines now fitted with the KS-100-FM2 and continue to be impressed with the results obtained and see it as part of their proactive maintenance program as a low cost easy to maintain system.

KS100A Valve pictured below

Fluid Trend Analysis
02/05/2004

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Normal
1 of 1

Customer Unit ID	Make	Model	Serial	Compartment
35-302	JOHN DEERE	450C LC	091082	Hydraulic System

Oil Sample Information | **Miscellaneous** | **Infrared Analysis** (% Allowable) | **Prior Interpretation Codes**

Control #	Date Taken	Fluid Status	Fluid Add	SMR	Fluid Run Time	A/F	H2O	Viscosity 100C	Soot	Oxi	Nit	Sul	
3-15420040116	01/02/2004	Sampled	0.0	2219	2219	N	N	7.7	0	28	10	20	200
4-14020040205	01/28/2004	Sampled	0.0	2299	2299	N	N	9.0	0	16	0	0	Fluid: JOHN DEERE HYGRADE 15W30

Filter Changed ^

Wear Metals (Parts per Million)

Copper	Iron	Chrome	Lead	Alum	Silicon	Molybdm	Sodium	Magnesm	Tin	Zinc	Nickel	Potasum	Calcium	Phospor
6	3	0	0	0	0	0	3	2	0	107	0	4	199	73
8	4	0	1	1	2	1	3	4	0	160	0	2	314	120

Overall Status	Particle Counts (per Milliliter) 4u	6u	14u	20u	25u	50u	75u	100u	ISO
Normal	4367	1019	97	14	20	6	0	0	19/17/14
Normal	1350	381	42	6	8	0	0	0	18/16/13

Custom Tests >>>> Cutting Sliding Fatigue NonMetalic Total / ml

Current Sample Interpretation (Current Sample is Line "A")

Normal Wear Indicated, Continue Sampling At Normal Interval