

R & A BENDER, INC.

P.O. Box 399 • Scotland, PA 17254 • (717) 264-4678

March 8, 1995

Robert E. Boswell
4644 Salem Church Road
Waynesboro, PA 17268

Dear Bob:

The enclosed copies of oil analysis are for our Komatsu bulldozer's in-line, 6-cylinder, 140 hp, 6D125 diesel engine. The oil analysis covers the last 18 months.

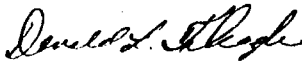
After finding out about your Militec Additive and seeing the demonstration, we added two (2) ounces of the additive per quart of motor oil on November 29, 1993, when the machine was in being serviced. On the next oil change, we added one (1) ounce of the additive to the quart of motor oil and are presently adding one (1) ounce per quart every other oil change.

Please take notice to what the Militec Additive has done for the oil in this one machine. As you review the analysis sheets, you will see that the copper content in this machine was very high (335 ppm), leading us to believe a major overhaul was not too far in the future. Not listed in the analysis report is the latest data (at 9,707 hours) showing only 3 ppm of copper, 14 iron and 14 lead. As a result, the wear level has dropped to a point where there is NO indication of abnormal wear.

We are currently using the additive in all of our off road equipment. Not only in the engines, but in the differentials and final drives as well. Our over the road shop has also started using this product in its thirty truck fleet. We feel the time saved in downtime and the high cost of replacement parts is well worth the investment in the additive.

If I can be of any further help or you have any questions, please do not hesitate to call me at 717 263-4046.

Sincerely



Donald L. Fleagle
Landfill Operations Supervisor

Enclosure

WIX FILTERS

LAB NO. RABD65E8

R & A BENDER
P. O. BOX 399
SCOTLAND

PA 17254

WIX FILTERS

LAB NO. RABD65E8

R & A BENDER
P. O. BOX 399
SCOTLAND

PA 17254

DATE 03 / 24 / 94

FOLLOWING IS THE OIL ANALYSIS RESULTS FOR UNIT D65E8.
COMMENTS AND RECOMMENDED ACTION ARE INCLUDED.

REQUEST	82657	82654	85374	85769	85632
TOTAL MI / HR	6912	7132	7390	7889	8287
OIL MI / HR	177	220	258	243	389
DATE	05 / 05 / 93	06 / 23 / 93	08 / 12 / 93	11 / 29 / 93	03 / 23 / 94
SILVER	0	0	0	0	0
ALUMINUM	1	1	0	0	1
CHROMIUM	0	0	0	0	1
COPPER	413	445	460	335	104
IRON	28	30	31	24	14
LEAD	145	150	131	75	25
SILICON	0	0	0	0	0
TIN	1	0	0	0	0
CALCIUM	309	30	146	-45	56
MAGNESIUM	-6	7	0	-9	0
ZINC	164	45	80	17	-21
INSOLUBLES	NONE	NONE	NONE	NONE	NONE
FUEL	NONE	NONE	NONE	NONE	NONE
ANTIFREEZE	NONE	NONE	NONE	NONE	NONE
VISC CHANGE	+9%	+18%	+0%	-4%	+4%
WATER	NONE	NONE	NONE	NONE	NONE

- * 1 HIGH COPPER. POSSIBLE SOURCES INCLUDE BEARINGS AND BUSHINGS, FILTER MESH SCREENS, OIL COOLER TUBES, ROCKER ARM AND WRIST PIN BUSHINGS, TIMING GEAR THRUST WASHERS, OIL PUMP DRIVE THRUST WASHERS, FUEL PUMP AND SERVICE METER BUSHINGS. SOME LUBE OILS USE COPPER COMPOUNDS AS ADDITIVES
- * 2 SLIGHTLY HIGH LEAD. POSSIBLE SOURCES INCLUDE BEARINGS, LEAD CONTAINING FUELS OR THEIR RESIDUES, SOLDER FROM OIL LINES OR OIL COOLER TUBES.
- 3 OTHER READINGS APPEAR TO BE WITHIN ACCEPTABLE LIMITS.

STEVE WEBB
OIL ANALYSIS LAB
(704) 864-6711
EXT. 2290

DATE 12 / 30 / 94

FOLLOWING IS THE OIL ANALYSIS RESULTS FOR UNIT D65E8.
COMMENTS AND RECOMMENDED ACTION ARE INCLUDED.

REQUEST	85632	68134	86847	85425	85427
TOTAL MI / HR	8,287	8555	8,805	9192	9453
OIL MI / HR	389	288	250	N/A	250
DATE	03 / 23 / 94	05 / 04 / 94	08 / 01 / 94	10 / 27 / 94	12 / 29 / 94
SILVER	0	0	0	0	0
ALUMINUM	1	1	2	2	1
CHROMIUM	1	0	0	0	0
COPPER	104	44	85	89	30
IRON	14	6	12	15	8
LEAD	25	7	16	18	8
SILICON	0	0	0	0	0
TIN	0	0	0	0	0
CALCIUM	56	150	-19	58	186
MAGNESIUM	0	-8	4	8	18
ZINC	-21	49	-53	15	100
INSOLUBLES	NONE	NONE	NONE	NONE	NONE
FUEL	NONE	NONE	NONE	NONE	NONE
ANTIFREEZE	NONE	NONE	NONE	NONE	NONE
VISC CHANGE	+4%	+15%	+13%	+8%	+8%
WATER	NONE	NONE	NONE	NONE	NONE

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- 2 OTHER READINGS APPEAR TO BE WITHIN ACCEPTABLE LIMITS

JACKIE SWEETEN
OIL ANALYSIS LAB
(704) 864-6711
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