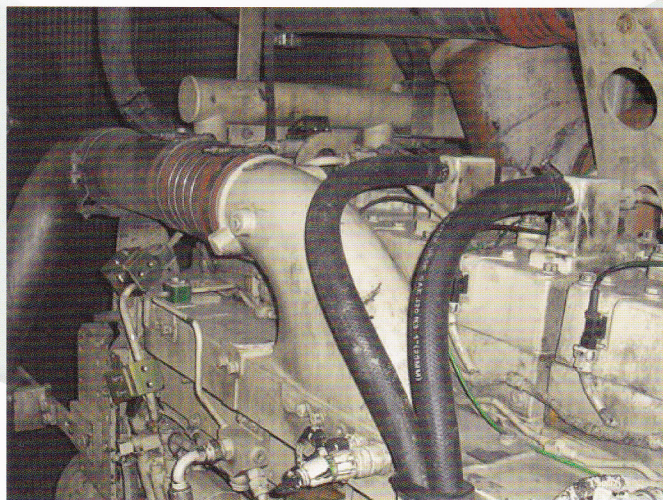




PLANT & MACHINERY



Oil Analysis Report.

This trial was conducted on behalf of Terex UK Ltd and carried out on a Terex 400 Face Shovel which was powered by 2x Cummins 1200 h.p. diesel engines in operation for A.T.H Quarries, Skarse, Cumnock, East Ayrshire. Samples of the oil are taken every 250 hours whereby the engines have a complete oil filter and oil change.

The Magna-flo product showed an instant result whereby soot and chemistry levels dropped significantly due to the better burn point, proving categorically that not only will the Magna-flo product give you better fuel consumption but equally as important less engine wear with less oil consumption. The British Coal Laboratory conducted the oil analysis on behalf of Terex UK Ltd.

Advantages of **Magna-flo Truck / Plant unit**

Independent fuel trials show a saving of 5-15%

Easily transferable when replacing your engine or vehicle

Lifetime guarantee

Reduced emissions

Due to the better burn point less particulates contaminating your engine oil, thus extending the engine life

Increased torque with a smoother running engine



Sample Trend

Database:	RJB	Equipment:	120067 - O&K RH 120 EXCAVATOR PNo 8
Area:	SKAR - SKARES RD OCCS	Point:	ENL - ENGINE LEFT

Ref Oil	FUCHS - TITAN HPE 1540 - HPE 15W/40 NEW NOV'03				
Lab Unit ID	P25				
Sample Date	12/12/2010	25/11/2010	17/11/2010	07/11/2010	12/10/2010
Sample #	1775402	1766719	1763024	1758819	1745024
Lab #	1775402	1766719	1763024	1758819	1745024
Analyst	Sian	Sian	Ernie	Andrew	Andrew
Unit Usage - ?	19618	19350	19202	19078	18804
Oil Usage - ?	250	750	130	500	250
Oil Added - l					

Wear	0	0	0	55	0
Iron - ppm	16	18	7	17	14
Copper - ppm	1	1	0	1	1
Chromium - ppm	1	2	1	1	1
Aluminum - ppm	3	2	1	2	2
Lead - ppm	4	2	1	2	3
Tin - ppm	1	3	2	1	2
FW ldx - ldx	2	3	5	14	4
Silver - ppm	0	0	0	0	0

Contamination	0	5	0	36	28
Silicon - ppm	4	9	5	7	6
Sodium - ppm	1	3	1	2	0
Water K.Fish - %	0.00	0.00	0.00	0.00	0.00
IR Soot - au	46	53	45	76	67
Boron - ppm	191	632	318	342	105

Chemistry	0	0	0	0	0
Visc 40C - cSt	109.4	115.2	107.8	113.1	121.8
IR Oxidation - au	1	0	1	3	2
IR Sulfation - au	4	3	4	8	7
IR Nitration - au	1	0	0	2	2
Magnesium - ppm	11	32	19	24	29
Calcium - ppm	3,718	4,999	3,659	4,063	3,839
Zinc - ppm	1,347	1,661	1,128	1,593	1,321
Phosphorus - ppm	1,195	1,609	1,042	1,427	1,193
Molybdenum - ppm	21	56	39	40	6
Manganese - ppm	1	1	1	1	1

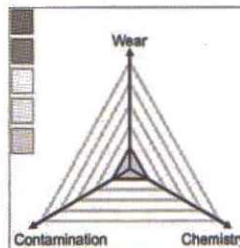
Terex UK Ltd Report

Oil analysing engine testing was completed for Terex UK Ltd, this was carried out on a Cummins 1200H.P. Diesel engine. The Magno-flo units were fitted on 8th November 2010. The data was collated by the UK Coal Laboratories. Mainly all statistic levels are down.

IR Soot levels have decreased by 65%
Oil usage decreased by 50%

Chemistry Levels	Percentage Decrease
Oxidation	65%
Sulfation	50%
Nitration	50%
Magnesium	62%
Calcium	8%
Zinc	13%
Phosphorus	15%
Molybdenum	48%

This particular engine is due for replacement at the end of January 2011 as it has completed its life expectancy of 10,000 hours.



MR JAMES MOFFAT
TEREX UK LTD - SKARES Rd
SKARES ROAD
nr CUMNOCK
EAST AYRSHIRE

