

Confirmed by two years of testing at ArcelorMittal Mines Canada:

Mobil Delvac 1300 Super helps deliver \$350,000 in yearly savings

Each Caterpillar 793 truck working in the ArcelorMittal Mines Canada iron ore mine site of Mont-Wright, Que., hauls a maximum load of 216 metric tonnes. Originally, when a truck was taken off the job every 500 hours for routine service, including oil change, it was out of operation for 24 hours. Multiply that 216 tonnes payload by the hours out of commission per truck, per year, and it's easy to see why the mine – one of the largest in Canada – was strongly attracted to the idea of extending oil-drain and service intervals.

Maurice Dionne of Imperial Oil Field Technical Services was invited to make a proposal – one that had the potential of increasing the availability of every Caterpillar 793 in the fleet. Imperial Oil, which had recently taken over the mine's lubricant business from another supplier, put together a detailed program for extended oil drains which was presented to the mine's maintenance team and to an authorized Caterpillar dealer.

The program consisted of extensive used-oil analysis to monitor drain extensions to 500, 750, 1,000 and 1,100 hours of service. This last extension to 1,100 hours provided the necessary margin of safety, as equipment can not always be pulled from service at precise intervals. (The mine has since elected to change oil and service trucks following consumption of approximately 95,000 litres of fuel. This extension to about 750 – 850 hours of service helps improve availability.)

Dionne was convinced that the used-oil analysis would support a move to extended drains: "The chemistry of Mobil Delvac 1300 Super delivers superior wear protection and oxidation control. Those are two key points that make it a great candidate for longer oil drains." Sample analysis from one of the units in the test (#F262 shown at right) confirm the long-term strengths of Mobil Delvac 1300 Super.



Caterpillar 793C Unit # F262 Hours:	500	750	1,000	1,100
Iron Wear (ppm)	18	23	33	34
Lead Wear (ppm)	0	1	3	4
KV @ 100°C (cSt)	13.6	14.7	15.3	15.0
Soot Weight %	0.3	0.4	0.5	0.6

The potential value of extended oil drains includes sharply reduced maintenance costs as well as savings on replacement oil, filters and used-oil disposal. But, as Dionne points out, the greatest revenue generator by far is the extended availability of equipment – almost 2,000 hours/yr – and the potential for improved profitability. "Mobil Delvac 1300 Super has clearly proven its ability to accommodate extended drains. It's shown why it's a leader."

While savings and revenue improvement are important to companies of any size, he believes that larger operations with well-organized fleets tend to gain the most from extended drains. "The total savings at this one mine are now in the \$350,000 range per year," says Dionne. "And that's using very conservative calculations!"

Exceptional performance, exceptional savings!

By switching to Mobil Delvac 1300 Super 15W-40 the ArcelorMittal Mines Canada mine at Mont-Wright generates savings of about \$350,000 a year. The lubricant's advanced chemistry promotes extended engine life and longer drain intervals even under the most severe conditions.

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