

SPINNER II[®] *PROFIT* *BUILDER* →

You'll Be Dollars Ahead

A Newsletter on Money-Saving Ideas From
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OIL & GAS DRILLING

PB No. 114

Increase Oil Service >50% with Self-Powered Centrifuge

Its no secret that the mainstay engine for gen set application in land rigs is the 16 cylinder Cat 6.25 bore D399. Now succeeded by the 3500 series, many rigs are still running the D379, D398 and D399 diesel, even though this engine design was first introduced in the late 1950's.

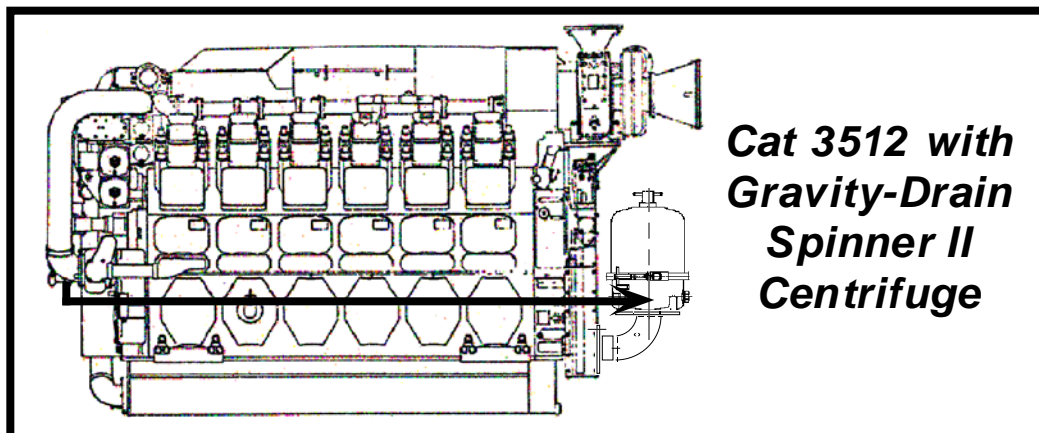
A lot of the credit for the success and durability of this engine is the widespread application of the Spinner II self-powered centrifuge by drill contractors. The centrifuge traps abrasive particulate in sizes ranging from 0.5µm and above; control of this wear-causing debris is key to extending both oil and engine life. Despite this market acceptance, there are a number of land rig operators who are just now beginning to get experience with the benefits this dirt-control tool can accomplish.

One internationally-known drill contractor in Tulsa, OK has recently completed a 18 month study of the oil durability effects offered by the self-powered centrifuge on Cat D399 gen sets in Columbia. This firm engaged a consultant to explore durability of both conventional mineral oils as well as

synthetic formulations, both used in concert with the centrifuge. Samples from both tests have now been analyzed, and here is part of the data:

Engine:	Caterpillar D399
Identification:	Unit 2
Total Hours:	26,492
Hours on Oil:	1700 (std. service-1000hrs)
Oil Type:	Mineral
Assessment:	Continue in Service
Engine:	Caterpillar D399
Identification:	Unit 5
Total Hours:	27,215
Hours on Oil:	6730 (std. service-none)
Oil Type:	Synthetic
Assessment:	Continue in Service

By separating harmful wear debris from lube oil, the Spinner II Centrifuge extends engine component life and oil service intervals, saving operating dollars. This test proved extended oil durability could reduce waste oil disposal problems with mineral oil by over 1500 gallons per year for every land rig. This drilling contractor has made a fleet-wide commitment to install the Spinner II Centrifuge and extend lube service intervals with mineral oils.



**Cat 3512 with
Gravity-Drain
Spinner II
Centrifuge**

