

# Chevron LubeWatch® Delo® 600 ADF Fluid Analysis Test Package



**LubeWatch®**

Delo 600 ADF is the industry's only ultra-low ash heavy-duty engine oil. This bespoke product delivers maximum total protection to both your engine and your emissions system, thanks to Chevron's unique patented *OMNIMAX™* Technology. Our research technologists have invented, tested, and proven this specialized formulation, setting it apart from traditional heavy-duty engine oils.

Given its distinct formulation, Delo 600 ADF requires a distinct set of test parameters for monitoring health and performance when it comes to oil analysis. To address this, Chevron has developed a specialized test package within the LubeWatch Fluid Analysis Program specifically for Delo 600 ADF. This program not only tests and monitors your oil but also offers Lubrication Performance Reviews conducted by a Chevron Lubrication expert. This exclusive service is available only through the LubeWatch Fluid Analysis Program.

While LubeWatch offers a variety of standard test packages, it is recommended to request the Delo 600 ADF package for the most accurate analysis of engine oil. By incorporating routine testing and analysis with LubeWatch Fluid Analysis for Delo 600 ADF, you can ensure your equipment runs better for longer periods. Preventative maintenance just makes good sense, and LubeWatch is here to help you achieve that.



## The Delo 600 ADF Fluid Analysis Test Package Includes the Following:

Test Description	Test Method
Elemental Metals by ICP	mod. ASTM D5185
Water by Crackle, confirm by Karl Fischer (0.5% reporting limit)	Crackle Test / mod. ASTM D6304C
Viscosity at 40°C & 100°C	mod. ASTM D445
Viscosity Index Calculation	ASTM 2270
% Fuel Dilution	ASTM D7593
% Fuel Soot	ASTM E2412
Oxidation	ASTM E2412 (Standard)
Nitration	ASTM E2412 (Standard)
Acid Number (TAN)	ASTM D664

**Delo®**  
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## PARAMETERS HAVE CHANGED BUT FOCUS ON RELIABILITY HAS NOT

There have been significant changes to fuel sulfur levels, combustion strategy, and after treatment systems over the past 15 years. These factors have decreased the relevance of traditional used oil parameters such as TBN, for modern engine oils. The focus on fuel efficiency has resulted in higher engine operating temperatures, making oxidation and acid number better indicators of oil life. Please reference [Chevron's Technical Bulletin Engine Oil Analysis: Understanding TAN & TBN \(bit.ly/394buLM\)](#). In light of recent considerations, we have adjusted the traditional limits for Delo 600 ADF, an industry-redefining technology, to minimize the occurrence of incorrect or false alarm warnings. Chevron LubeWatch Fluid Analysis will continue to offer test packages focused on key performance indicators that directly impact the reliability of equipment and vehicles. This commitment to precision and reliability remains a cornerstone of our service.

**Oxidation & Nitration:** These engine oils have a much higher oxidation and nitration threshold than traditional diesel engine oils. Alarm limits will not begin until after 25 abs/cm.

**Acid Number (TAN):** With modern engines, oxidation (rather than incomplete combustion) is the primary pathway to acid contained within the engine oil. Acid can cause corrosion, and the increase of acid number or TAN, can be a precursor to an increase in wear metals.

**Potassium & Coolant Contamination:** The unique formulation has a much higher potassium ppm level than traditional diesel engine oils which requires the alarm limits to be increased. Other test indicators such as viscosity, sodium, water, acid number and oxidation will assist with coolant contamination.

## LUBEWATCH LUBRICATION PERFORMANCE REVIEWS

LubeWatch Lubrication Performance Reviews provide detailed technical trending analysis and equipment performance consultation by a Chevron Lubrication Expert, an exclusive offering through the LubeWatch Program. The reviews are a critical component providing extensive information well beyond information found on individual fluid analysis reports. Technical insights and equipment monitoring trends are gathered from the fluid analysis data and consolidated into a concise and visual digestible report. This data and information can help optimize your lubrication program while increasing equipment utilization.

Please consult with your Chevron Lubricants Representative for further information and assistance in getting started with the Delo 600 ADF Fluid Analysis Test Package.

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[ChevronDelo.com](https://www.ChevronDelo.com)

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