

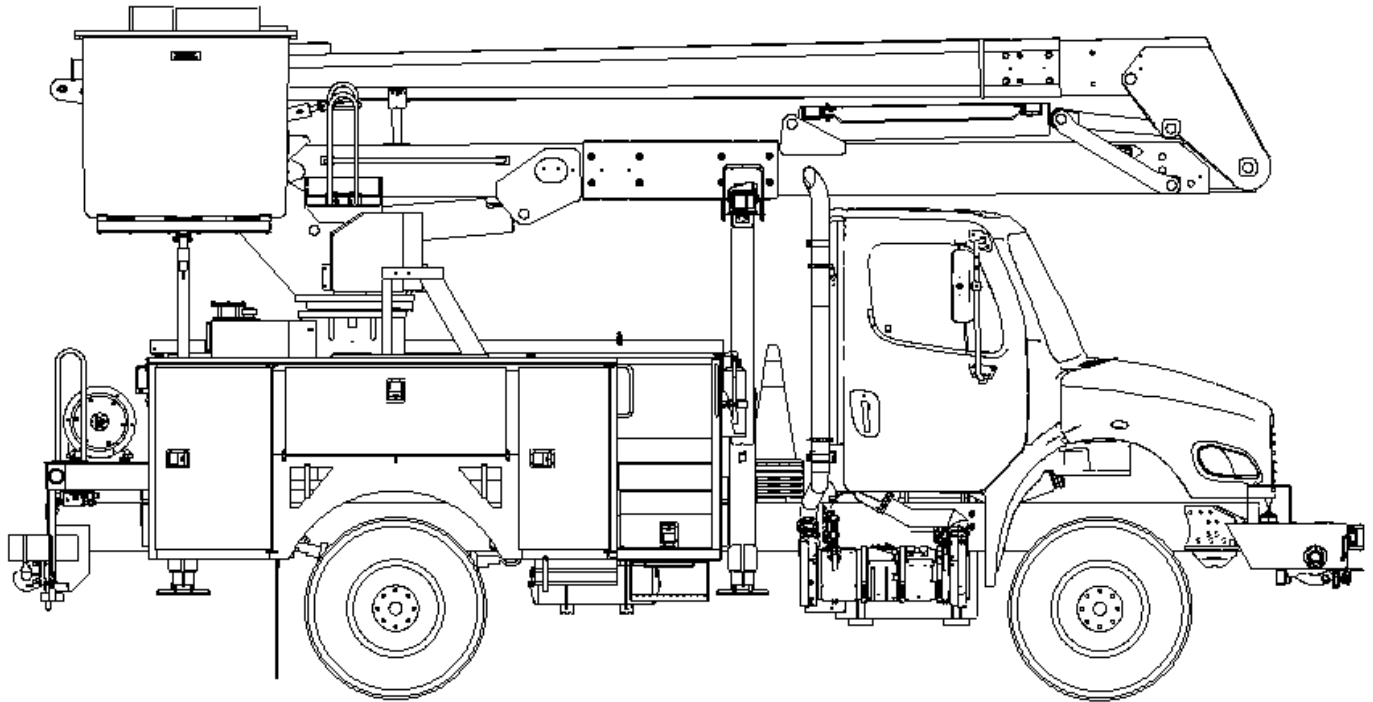


TEREX®

TECH TIPS

HYDRAULIC FLUID ANALYSIS

NO. 137



SERVICE CALL:
HYDRAULIC FLUID ANALYSIS




MODEL(S):
ALL TEREX UTILITIES EQUIPMENT




TOOLS NEEDED:
FLUID ANALYSIS KIT

TEREX UTILITIES TECHNICAL SUPPORT TEAM

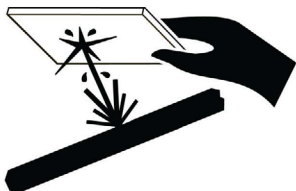
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**WARNING**



Injection Hazard

Fluid escaping under pressure can penetrate skin and result in death or serious injury.



Relieve pressure before disconnecting hydraulic lines.

Stay clear of leaks and pin holes. Use a piece of cardboard or wood to search for leaks. Do not use hand.

Fluid injected into skin must be surgically removed within a few hours by a doctor familiar with this type of injury, or gangrene will result.



DANGER

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

DO NOT PERFORM MAINTENANCE UNLESS:

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



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INTRODUCTION

Hydraulic oil sample testing allows monitoring the condition of the hydraulic fluid for early detection of contamination, wear on system components, and potential failures. It will identify contaminations such as dirt, water, or metal particles due to wear or system degradation. This may help prevent costly downtime and extend the life of the hydraulic system. It will also detect issues with the filtration system. Some oil suppliers can test to determine the dielectric strength of the oil per ASTM D877.

STEP 1

Parker is currently offering a hydraulic fluid analysis kit for purchase.

- Particle Count
- Photomicrograph
- Free Water
- Spectrometric
- Viscosity
- Water (PPM)
- Neutralization Analysis (Acid Number)

For more information, consult the Parker website: <https://ph.parker.com/us/en/product-list/par-test>

Your hydraulic oil supplier may offer hydraulic fluid sample analysis.



Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. DO NOT use your hand.

STEP 2

When taking oil samples to test, cleanliness is of extreme importance to prevent introducing contamination from your sample method that is not actually in the hydraulic system. Use clean bottles and hoses to take samples from the center of the tank or midstream sample from a hose.

STEP 3

Taking an oil sample:

- Run the unit for 10 to 15 minutes to allow oil to warm up and circulate through the system
- Shut-off unit
- Wipe off fill cap and area around to remove contamination
- Remove fill cap and screen
- Take oil sample from center of reservoir



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FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM
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