

WASTE HAULER TRUCKS

CONTAMINATED HYDRAULIC OILS CAN INCREASE WEAR AND MAINTENANCE COSTS

In a dirty environment such as waste hauler, particle-based contamination of hydraulic fluids is a growing concern, resulting in a disproportionately large maintenance budget.

82%
OF HYDRAULIC
SYSTEM WEAR IS
PARTICLE-BASED¹

PARTICLE-BASED CONTAMINATION CAN OCCUR VIA:

- Particles leftover from manufacturing and assembly
- Contaminants from working environment
- Contamination from within the system
- Particle contaminates from new fill oil

OEM RECOMMENDATIONS INCREASE EXPECTATIONS OF OIL CLEANLINESS

Lower filter tolerances and initial fluid cleanliness standards mean even more is riding on the performance of your hydraulic oils.

THE SOLUTION IS ISOCLEAN®

By removing additional particle contaminants from new "clean" oils, ISOCLEAN® Certified Lubricants can:

- Improve reliability and productivity
- Increase component life
- Improve safety
- Reduce maintenance and service time
- Lower disposal costs

CONTROL FLUID CONTAMINATION AT INITIAL FILL **SAVE UP TO 90%²**

1 - A study conducted by the National Research Council of Canada found that on average, 82 percent of wear problems are directly attributable to particle-induced failures such as abrasion, erosion and fatigue." — Machinery Lubrication Magazine, National Research Council of Canada.
2 - This is an estimation based on typical cost to remove and repair equipment after contaminated fluid has already been introduced to system.



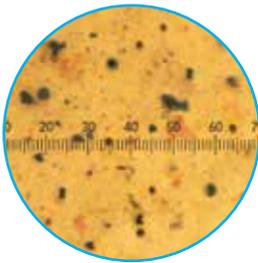
**RUN
BETTER
LONGER**

Chevron Reliability — The RBL™ Program is our commitment of business support and reliability: Chevron's lubrication expertise combined with superior products and a tailored service program work together to help your business Run Better Longer.

ISOCLEAN® CERTIFIED LUBRICANTS CAN HELP SAVE WASTE HAULERS UP TO 25% IN ANNUAL MAINTENANCE COSTS³

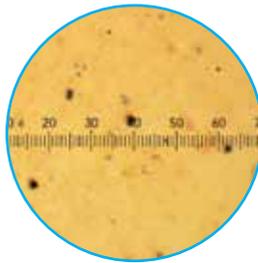
EQUIPMENT LIFE EXTENSION

ISOCLEAN® Certified Lubricants could potentially double the life cycle of system components.



PATCH TEST

Typical Hydraulic Oil ISO Code:
21/19/16



PATCH TEST

Chevron ISOCLEAN Certified
Hydraulic Oil ISO Code: 18/16/13

Moving from ISO 21/19/16 to ISO 18/16/13 would achieve:

2X LIFE EXTENSION⁴

4 - Source: Noria Corporation Life Extension Factor Table.

COST SAVINGS

ISOCLEAN Certified Lubricants can significantly improve equipment uptime and productivity, and reduce maintenance costs/component replacement.

Typical fleet:

- 20 waste hauler trucks operating
2,400 hours per year
- Hydraulic oil and filter replacement: 6 months
- Hydraulic pump replacement per truck:
\$2,000 per year
- Oil Cleanliness level: 21/19/16 → 18/16/13

Utilizing Chevron RBL™ total cost savings calculators, the estimated impact to this fleet is:

\$30,000 PER YEAR IN COST SAVINGS⁵

5 - Actual results, performance or achievements could differ from those expressed or implied due to a variety of factors and uncertainties, such as operating and equipment conditions, downtime, and fluctuations in product, labor and other operating costs.

START SAVING WITH ISOCLEAN

Stop throwing away money and begin cleaning up your operation with ISOCLEAN. Our 4-step process will help you begin to realize dramatic savings and increased performance.

1

**CONTACT A
CHEVRON ISOCLEAN
CERTIFIED MARKETER**

2

**EVALUATE ONSITE
LUBRICANTS AND
CONTAMINATION
CONTROLS**

3

**SET CLEANLINESS
TARGETS TO OEM
SPECIFICATIONS**

4

**TRANSITION TO
ISOCLEAN CERTIFIED
LUBRICANTS**

CALL YOUR CHEVRON MARKETER NOW FOR YOUR FREE LUBRICATION CLEANLINESS CONSULTATION.

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Chevron Products Company