



Duolec® Vari-Purpose Gear Lubricant (1603)

Sand & Gravel Contractor in Montana

Eljay Type 45" Standard Head Cone Drive

- Maintained operational oil pressure
- Reduced leakage to a minimum

Customer Profile

This sand and gravel contractor is a rock quarry operation. The company produces all types of road materials.

Application

An Eljay Type 45" standard head cone drive is used to crush the various materials.

Challenge

The most critical application in the pit operation is the cone drive gearbox. This gearbox oil must come up to operational oil pressure before it can engage. Waiting on oil pressure slows productivity.

LE Solution

Duolec® Vari-Purpose Gear Lubricant (1604) was originally recommended to meet the manufacturer's specification and to provide cost saving benefits.

Results

Before converting to Duolec 1604, operational pressure was hard to achieve in cold weather-below 32°F (0°C). This sand and gravel contractor makes every effort to work year round, even in harsh Montana winters.

Since converting to Duolec 1604, operational oil pressure has been maintained, and no downtime has been necessary. The personnel at this sand and gravel contractor attribute the stable oil pressure and lack of downtime to Duolec 1604's unique adhesive qualities.

The oil clings to the bearings, giving good lubricant protection even in times of cold startups. Before converting to Duolec 1604, this contractor was losing one gallon of oil per week because of leaks from the seals. LE's superior base oil keeps

seals supple and does not dry the seal material, reducing leakage to an absolute minimum. Seal life is typically much longer due to these qualities. In over two years of operation on Duolec 1604, no additional makeup oil has been necessary. Duolec® Vari-Purpose Gear Lubricant (1603) was put into the 54" Eljay standard head cone drive shortly after experiencing the success of Duolec 1604 in the 45" cone.

Duolec 1603 was used in conjunction with the manufacturers recommendation for an ISO 100 oil during colder ambient temperatures. This sand and gravel contractor has now made the decision to use Duolec 1603 year round in both the 45" and 54" cones, and continue to expand its usage in their newly acquired crushing equipment. They are very pleased at the consolidation of product, and the performance of Duolec 1603.

Other Products Used

- Almagard® Vari-Purpose Lubricant (3751) is working very well in shaker screen bearings and bucket pins on loaders.
- Monolec® Industrial Lubricant (4700) is being used in the soft metal bearings in the jaw crusher.
- Monolec Ultra® Engine Oil (8800) has allowed this sand and gravel contractor to extend oil drain intervals in their one-ton diesel service trucks from 3,000 miles to 9,000 miles. Because of the success of Monolec Ultra 8800 in the trucks, they have switched over a Caterpillar model 980 loader. The oil drain interval has been safely extended from 100 hours to 300 hours, with a 150-hour filter change to ensure maintenance scheduling and the cleanliness of the oil. They have been very happy with the results thus far.

Thank you to all of the personnel at this sand and gravel contractor, and to Jim Pezoldt, LE lubrication consultant (pictured), for providing the information used in this report.





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