

## ABOUT ADNOC GROUP



**50,000+**  
Employees



**LARGEST** single oil refinery in  
the Middle East



**LARGEST** drilling company in the  
Middle East with **100+** onshore,  
offshore and well water rigs.



**LARGEST** gas processing plants  
with capacity of **8 billion** standard  
cubic feet per day



**LARGEST** network of service  
stations in UAE - **500+** Service  
Stations, **340+** Convenience Stores



**UAE'S most valuable brand**  
for **4** consecutive years

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**ADNOC**  
**LUBRICANTS FOR**  
**MINING & QUARY**

## OVERVIEW

**Mining industry is one of the many significant component of economy in most countries.** In some, it has been a main driver. Various materials are mined in a variety of methods. However, most of these methods include the most common phases.



EXTRACTION



REFINING



FINISHING

Equipment and machineries employed in the mining industry are not only complex and specialized, but these are also subjected to:

- Extended Utilization
- Elevated Temperatures
- Heavy Mechanical Loads
- Severe Contamination
- High Ambient Water and Humidity
- Tighter Environmental Regulation

Lubrication requirements in most mining operations are some of the most stringent ever applied. This is where careful attention is paid to OIL, MACHINE, and CONTAMINATION conditions to optimize productivity.



## KEY DRIVERS

Companies operating in the Mining industry, are driven by its commodities' key economic factors:

- Commodity Price
- Production Output
- Revenue
- Environmental Regulations

The factors mentioned directly affects lubrication considerations. Companies look at reducing overall maintenance and operation costs. They require quality lubricants that meets most of their machineries' requirements, and rationalize inventory. Others look at specific pack sizes and on-time delivery. Some large companies require appropriate fluid distribution and management systems.

ADNOC is driven to meet these requirements and help customers meet their bottom-line objectives.

This material aims to support end-users with ADNOC expertise coupled with industry best practices, and help them achieve their business objectives.



MINING MACHINERIES - EXTRACTION



| LUBRICATION POINT                 | BEST                              | BETTER                    |
|-----------------------------------|-----------------------------------|---------------------------|
| Engine                            | ADNOC Voyager UltraSyn 10W-40     | ADNOC Voyager Plus 15W-40 |
| Transmission & Drivetrain         | ADNOC ATF Universal               | ADNOC ATF Dexron III-H    |
| Hydraulic                         | ADNOC Hydraulic Oil HP            | ADNOC Hydraulic Oil H     |
| Grease - General                  | ADNOC Grease PA 220               | ADNOC Grease LX EP        |
| Grease – Heavy-Duty / High Loaded | ADNOC Grease Moly EP              |                           |
| Air Compressor                    | ADNOC Synthetic Compressor Oil PA | ADNOC Compressor Oil      |
| Differentials & Final Drives      | ADNOC HD Trans                    |                           |
| Rock Drill Oil                    | ADNOC Rock Drilling Oil           |                           |
| Cooling Systems                   | ADNOC Auto Cool                   | ADNOC Auto Cool LL        |

MINING MACHINERIES - REFINING



| LUBRICATION POINT                 | BEST                              | BETTER                       |
|-----------------------------------|-----------------------------------|------------------------------|
| Bearing - Oil                     | ADNOC SynGear PA                  | ADNOC Industrial Gear Oil EP |
| Bearing - Grease                  | ADNOC Grease PA 220 2             | ADNOC Grease EP 2            |
| Air Compressor                    | ADNOC Synthetic Compressor Oil PA | ADNOC Compressor Oil         |
| Coupling - Grease                 | ADNOC Grease OGL GAX 1000         |                              |
| Gear Drive / Gearbox - Oil (Worm) | ADNOC SynGear PG                  | ADNOC Compounded Gear Oil    |
| Gear Drive / Gearbox - Oil        | ADNOC SynGear PA                  | ADNOC Industrial Gear Oil EP |
| Trunnion/Thrust/Pinion Bearing    | ADNOC SynGear PA                  | ADNOC Industrial Gear Oil EP |
| Electric Motor Bearing            | ADNOC Grease PA 220 2             | ADNOC Grease EP 2            |

## MINING MACHINERIES - FINISHING



| LUBRICATION POINT              | BEST                  | BETTER                       |
|--------------------------------|-----------------------|------------------------------|
| Electric Motor Bearing         | ADNOC Grease PA 220 2 | ADNOC Grease EP 2            |
| Gear Drive / Gearbox - Oil     | ADNOC SynGear PA      | ADNOC Industrial Gear Oil EP |
| Trunnion/Thrust/Pinion Bearing | ADNOC SynGear PA      | ADNOC Industrial Gear Oil EP |
| Bearing - Grease               | ADNOC Grease PA 220 2 | ADNOC Grease EP 2            |
| Coupling - Grease              | ADNOC Grease OGL 5500 |                              |
| Open Gear                      | ADNOC OGL 22000       |                              |

## ADNOC TECHNICAL SUPPORT SERVICES

| Oil Analysis Program                                                                                                                                                                                                                                                                                                                 | Training and Seminars                                                                                                                                                                                                                                                                                                                                                                           | Lubrication Program Consultancy                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Product/Formulation Development                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Key advantages:</b></p> <ul style="list-style-type: none"><li>Information on oil and machine condition</li><li>Results discussions and recommendations</li></ul> <p><b>Potential Benefits:</b></p> <ul style="list-style-type: none"><li>Right decisions at the right time</li><li>Optimum reliability from machines</li></ul> | <p><b>Key advantages:</b></p> <ul style="list-style-type: none"><li>Personnel competency</li><li>Knowledge refresher on lubrication</li><li>Introduce new products and services</li><li>Latest industry best practices</li></ul> <p><b>Potential Benefits:</b></p> <ul style="list-style-type: none"><li>Peak personnel performance which are significant in achieving business goals</li></ul> | <p><b>Key advantages:</b></p> <ul style="list-style-type: none"><li>Lubrication program</li><li>Objective-based performance assessments</li><li>Machine preparation on oil change-over</li><li>Determine areas for improvement</li><li>Product applications &amp; recommendations</li><li>Troubleshooting</li></ul> <p><b>Potential Benefits:</b></p> <ul style="list-style-type: none"><li>Improved operation and productivity.</li><li>Reduced downtimes</li><li>Lower overall cost</li></ul> | <p><b>Key advantages:</b></p> <ul style="list-style-type: none"><li>Ensures products meet the latest OEM specifications and approvals</li><li>Ensures product are suitable against manufacturer requirement</li></ul> <p><b>Potential Benefits:</b></p> <ul style="list-style-type: none"><li>Optimum operation and productivity</li></ul> |

## DATA SHEET: TECHNICAL & SAFETY

| TECHNICAL/PRODUCT DATA SHEET                                      | SAFETY DATA SHEET                                                               |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Product description (some include brief composition)              | Manufacturer Information                                                        |
| Common applications, methods of use, operating requirements       | Chemical Composition (if required to declare)                                   |
| Specifications & Approvals                                        | Physical, Health and Environmental Hazard                                       |
| Potential benefits that the product will deliver to the end user. | Protective measures                                                             |
| Viscosity, Viscosity Grades, Viscosity Index                      | First Aid and Safety Measures                                                   |
| Flash Point, Pour Point                                           | Safety precautions for handling, storing, and transporting the product/material |