



OIL AND GAS DEVELOPMENT COMPANY LIMITED

NASHPA OIL & GAS FIELD

SCHEDULE OF REQUIREMENT

TENDER ENQUIRY # TE-NOF-M-06-2024

PROCUREMENT OF LUBE OIL FOR ENGINES OF NASHPA LPG PLANT

Format of submission of bid:

S#	Description	Reference #	Rate	Total rate (inclusive of all Taxes)	Deviation
1	As per attached list				

Detail of Lubrication Oil			
Sr No.	Description	Unit	Qty.
1	Shell Mysella S5N 40 or equivalent brand as per terms and conditions and specifications of the reference oil as per attached data sheet	Liters	3,344

TERMS AND CONDITIONS:

1. Bidding procedure: single stage, single envelope (technical and financial bids may be submitted in single envelope).
2. Delivery period will be 02 weeks from the date of issuance of purchase order
3. Bid validity: 30 days
4. Delivery of material at Nashpa plant is in supplier's scope.
5. Evaluation of the bid shall be carried out on the basis of unit rate.
6. Oil to be supplied in sealed OEM packaging. If the required quantity of the oil cannot be supplied due to size of standard OEM packaging, then the supplier may supply the oil in the near equivalent size.
7. Service bulletin issued by the company for any updated part number/specifications to be provided with the bid.
8. Any required technical clarification/details regarding oil mentioned above must be cleared before submission of bid. No change in substance of bid will be entertained after bid submission date.
9. Material will be accepted after final inspection at site, and payment will be made as per OGDCL's standard payment procedure.
10. The firm should have valid NTN and GST numbers, and have active status on FBR website.
11. The Firm should have active Professional tax certificate of concerned Excise office where operating business.
12. FBR Annex-C in submitted status to be provided along with Invoice or at time of payment.
13. The quoted brand of the lube oil must have approval from major OEMs of engines like Waukesha, Caterpillar, Genbacher, Cummins etc.
14. The bidder should confirm previous supply and use of quoted lube oil for gas engines and compressors in Pakistan. (with documentary evidence)
15. Evaluation will be on full consignment wise.



Previous Name: Shell Mysella XL

Shell Mysella S5 N 40

- *Extended Oil Life*
- *Extra Protection from Deposits and Corrosion*

Long Life, Low Ash Stationary Gas Engine Oil

Shell Mysella S5 N is a high performance quality oil blended for use in highly-rated, 4-stroke, spark-ignition engines which require a 'low ash' oil.

Shell Mysella S5 N satisfies the new generation of stationary gas engines designed to meet the emerging legislation limiting emissions of NOx, and those which employ the latest 'lean' or 'clean' burn technology.

Shell Mysella S5 N is specially developed to provide extended drain intervals in those natural gas engines where oil life is a limiting operational factor.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

• Extended oil life

Significantly prolongs oil life relative to previous generation gas engine oils by resisting oxidation and nitration, viscosity increase and the formation of harmful acids, especially in demanding cogeneration (CHP) applications. (When used with landfill or biogases, oil life will be dependent on the level of contaminants in the gas.)

• Engine protection

Shell Mysella S5 N offers excellent control of deposits and piston cleanliness in advanced engine designs. Shell Mysella S5 N is formulated with low ash and low phosphorus offering extended life to valves and spark plugs and full compatibility with emission catalysts.

• System efficiency

Shell Mysella S5 N is designed to help prevent knocking and thereby enable engines to be run at full load and optimum efficiency and its viscosity control helps to minimise engine friction losses. Shell Mysella S5 N helps to provide excellent cleanliness for the heat recovery boilers, turbochargers and intercoolers thus allow total system to operate with consistent performance and efficiency over time.

Main Applications



- Spark-ignited gas engines fuelled by natural gas, especially those creating high oil stress

- May also be used for landfill and biogases

Specifications, Approvals & Recommendations

Shell Mysella S5 N is suitable in engine types where a "low ash" oil is required.

Shell Mysella S5 N is approved by:

- Cummins QSV 81G/91G, QSK 60G
- GE Jenbacher Series 2,3, 4 and CAT, Series 6 all versions Fuel Class A and CAT, Series 4 (from version C) Fuel Class B and C, Series 6 (from version F) Fuel Class B and C
- Guascor FGLD, SFGLD
- MAN D&T Medium Speed Engines for Gas Operation
- MAN T&B M3271-2
- MTU Series 4000 L61, L62, L63, L64 and L32/L33
- MTU Onsite Energy Series 400
- MWM gas engines – TR 2105
- Caterpillar CG132, CG170, CG260 – TR 2105
- MAK GCM 34 Category 1
- Rolls Royce KG-1, KG-2, KG-3, KG-4, BV-G, CR-G
- Perkins 4000 series
- Wartsila W 34SG, W 50SG, W 20DF, W 32DF, W 34DF, W 50DF, W25SG, W28SG, W 175SG, W 220SG
- Waukesha Cogen and 220 GL (Pipeline Quality Natural Gas)

Shell Mysella S5 N meets Requirement of:

- Caterpillar Stationary Gas Engines
- Waukesha other gas engine types.
- Tedom

For engines under warranty, Shell advises contact with the engine manufacturer and Shell representative to choose the appropriate oil given the equipment operating conditions and customer maintenance practices.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

Typical Physical Characteristics

Properties			Method	Shell Mysella S5 N 40
SAE Viscosity Grade				40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	125
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	13.5
Density	@15°C	kg/m ³	ASTM D4052	890
Flashpoint Cleveland Open Cup			ASTM D92	264
Pour Point			ISO 3016	-18
BN			ASTM D2896	4.5
Sulphated Ash			ISO 3987	0.48
Phosphorus			ASTM D4047	300

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

• Health and Safety

Shell Mysella S5 N is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Oil Analysis

For optimum results regular oil analysis is strongly recommended

• Advice

Advice on applications not covered here may be obtained from your Shell representative.

Note: this product is not designed for automotive gas engines