

# Used Oil Analysis Program

Normal

<b>Account Name</b>	<b>Anlima Energy Limited</b>	
<b>Account Address</b>	P/L: 116 MW IPP, Shikolbaha, Potiya, Chattogram, Bangladesh H/O: H-04, Flat-B1, Road-24, Block-K, Banani, Dhaka-1213, Bangladesh Tel: +880-1712-339714 Fax: +880-2-9885271/69 Fax: No Record	
<b>Account Contacts</b>	Engr. Md. Azharul Islam Mahmudul Hoque	Plant Manager Managing Director
<b>MJLBL Contacts</b>	M. Mukul Hossain Tel: +880-2-58815895	Chief Engineer & CEO

<b>Equipment No.</b>	E-01
<b>Equipment Maker</b>	MAN
<b>Equipment Model</b>	18V48/60TS
<b>Component</b>	Diesel Engine
<b>Component Make</b>	Not Applicable
<b>Component Model</b>	Not Applicable
<b>Equipt Serial No</b>	1135668
<b>Registered Lubricant</b>	Mobilgard M 50
<b>MJLBL File No</b>	MJL/AEL/21/588

## MJL Bangladesh Limited

Mobil House,  
CWS (A) 13/A, Gulshan Avenue,  
Bir Uttam Mir Shawkat Sarak  
Dhaka-1212, Bangladesh

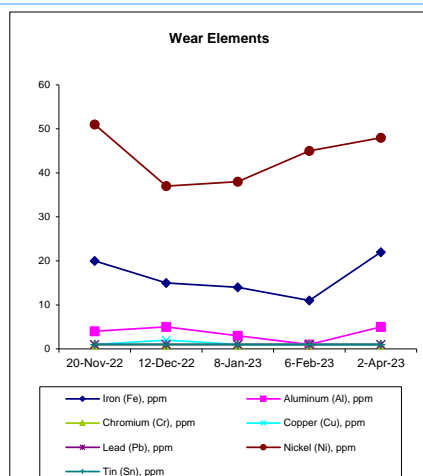
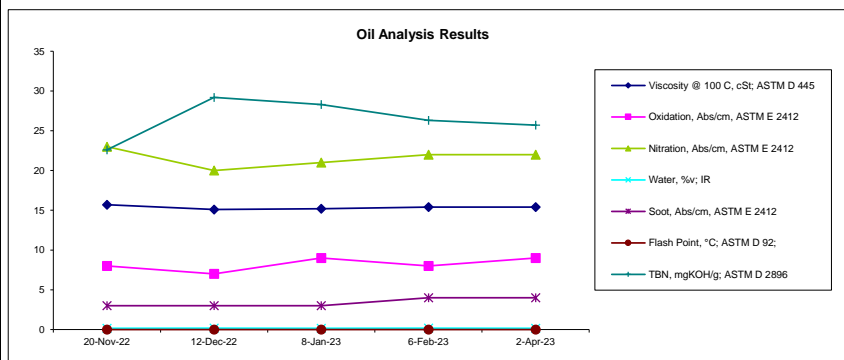
Tel: +880-2-58815895, 58815828, 58815829  
Fax: +880-2-9885269, +880-2-9885271

www.mobilbd.com

**Evaluation (for current sample):** Va & Ni ppm was found on the higher sides, possibly due to ingress of HFO combustion debris. Nitration was found on the higher side. Please run the purifier continuously to remove soot, water & combustion debris. All other tested parameters were found within the standard acceptable limits. Please maintain Specific Lube Oil Consumption (SLOC) as per maker's recommended rate of >0.4g/Kwh. However, please consult with the maker's instruction for the limits of the acceptance of tested parameters.

Progressive Oil Analysis	Previous Sample	Previous Sample	Previous Sample	Previous Sample	Current Sample
Date Sampled	8-Nov-22	3-Dec-22	29-Dec-22	31-Jan-23	24-Mar-23
Date Received	14-Nov-22	6-Dec-22	2-Jan-23	2-Feb-23	27-Mar-23
Date Reported	20-Nov-22	12-Dec-22	8-Jan-23	6-Feb-23	2-Apr-23
Lab Number	MJL 22-3390	MJL 22-3577	MJL 23-0086	MJL 23-0312	MJL 23-0777
Oil Km/Hrs	10861	11402	11949	12552	13747
Filter Km/Hrs	2942	3483	4072	4633	5828
Equipment Km/Hrs	10861	11402	11946	12552	13747
Make-up Liters	2,680	6,560	3,200	3,030	5,090
Oil Changed Date	12.11.19	12.11.19	12.11.19	12.11.19	12.11.19

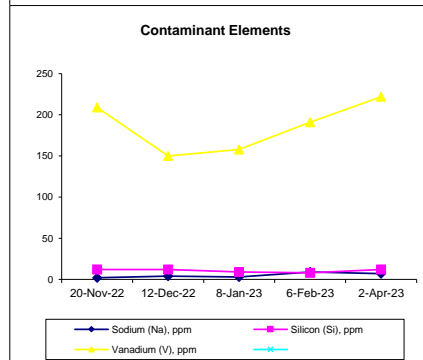
Oil Analysis Results					
Date Reported	20-Nov-22	12-Dec-22	8-Jan-23	6-Feb-23	2-Apr-23
Viscosity @ 100 C, cSt; ASTM D 445	15.7	15.1	15.2	15.4	15.4
Oxidation, Abs/cm, ASTM E 2412	8	7	9	8	9
Nitration, Abs/cm, ASTM E 2412	23	20	21	22	22
Water, %v; IR	0.16	0.17	0.16	0.18	0.16
Soot, Abs/cm, ASTM E 2412	3	3	3	4	4
Flash Point, °C; ASTM D 92	>200	>200	>200	>200	>200
TBN, mgKOH/g; ASTM D 2896	22.6	29.2	28.3	26.3	25.7



Sample Date	20-Nov-22	12-Dec-22	8-Jan-23	6-Feb-23	2-Apr-23
Date Reported	20-Nov-22	12-Dec-22	8-Jan-23	6-Feb-23	2-Apr-23

Wear Elements - ppm (mg/kg) - ASTM D 5185					
Iron (Fe), ppm	20	15	14	11	22
Aluminum (Al), ppm	4	5	3	1	5
Chromium (Cr), ppm	1	1	1	1	1
Copper (Cu), ppm	1	2	1	1	1
Lead (Pb), ppm	1	1	1	1	1
Nickel (Ni), ppm	51	37	38	45	48
Tin (Sn), ppm	1	1	1	1	1

Contaminant Elements - ppm (mg/kg) - ASTM D 5185					
Sodium (Na), ppm	2	4	3	9	7
Silicon (Si), ppm	12	12	9	8	12
Vanadium (V), ppm	209	150	158	191	222



Normal + Caution \* Alert

## Laboratory Remarks (for current sample)

Samples have been tested in accordance with Standard Laboratory quality guidelines and results are based on the sample supplied being truly representative of the system sampled. Results are provided for your interpretation and wear metal levels should be evaluated by you for any trend when compared to previous results.



Mobil