

Report Status

DIAGOMAR PLUS

NORMAL

Lubmarine

Vessel Name XIN BIN HAI
 Company FLEET MANAGEMENT LTD
 Unit Name STERN TUBE
 Unit ID LM02260081
 Description STERN TUBE BIO
 Make
 Model

Oil Type BIONEPTAN 100
 Analysis No 7302624
 Reported 01-NOV-21
 Affiliate LUBMARINE-HK
 Lab Shanghai

Symptoms	Lubricant condition is Normal.
Comments	Retain this report for Insurance or Classification Society Inspection. Guidance limits (ppm) for metals / contaminants reflect IACS recommendation (10:Cr/Pb/Ni/Sn 30:Fe 40:Si 50:Cu 70:Mg 80:Na). Note that Na, Si, Mg are sometimes present as additive in an engine oil. Resample at normal interval.

DATA

		NORMAL	NORMAL	NORMAL	NORMAL
Sample No		5307177	4800104	5661904	5661916
Date Sampled		24/01/2021	14/04/2021	07/07/2021	07/10/2021
Date Received		28/01/2021	27/04/2021	16/07/2021	27/10/2021
Port Landed		YANTAI	SINGAPORE	JINGTANG	BAYUQUAN
Oil on Label		BIONEPTAN 100	BIONEPTAN 100	BIONEPTAN 100	BIONEPTAN 100
Purifier/Filter		N.A.	N.A.	N.A.	N.A.
Equipment Life	Hrs	65856	66928	68579	69844
Oil Life	Hrs	3943	5015	6666	7931
Top up Volume					

ANALYSIS

Visco @40°C	mm2/s	100.00	92.32	102.60	99.21
Acid Number	mg KOH/g	1.08	1.18	1.69	0.74
Water Content	%mass	0.00	0.00	0.00	0.00
PQ-index		19	6	20	15
Oxidation by FTIR	abs/cm	6.5	>500	6.3	6.4

SPECTRO ANALYSIS

WEAR ELEMENTS

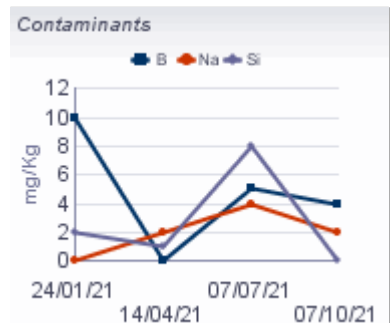
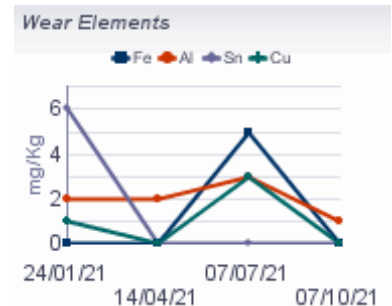
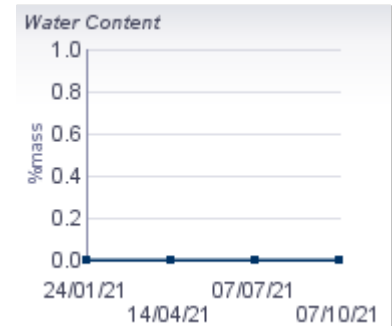
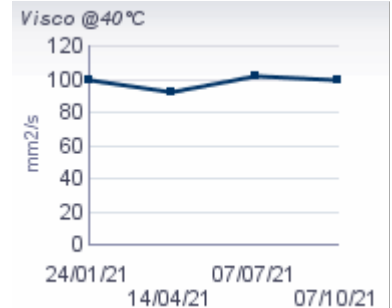
Iron	(Fe)	0	0	5	0
Chromium	(Cr)	0	0	0	0
Molybdenum	(Mo)	0	0	2	0
Copper	(Cu)	1	0	3	0
Lead	(Pb)	4	0	6	0
Silver	(Ag)	0	0	0	0
Tin	(Sn)	6	0	0	0
Aluminium	(Al)	2	2	3	1

CONTAMINANTS

Nickel	(Ni)	3	0	2	0
Vanadium	(V)	0	0	0	0
Silicon	(Si-T)	2	1	8	0
Boron	(B)	10	0	5	4
Sodium	(Na)	0	2	4	2
Magnesium	(Mg)	3	8	2	0

OTHER METALS

Phosphorus	(P)	330	354	341	345
Zinc	(Zn)	6	29	20	0
Barium	(Ba)	2	4	0	0
Calcium	(Ca)	9	35	87	72



Values with *: Red and Bold = URGENT / blue and Italic = CAUTION

The validity of symptoms and comments is depending on the representativity of the sample. Comments are advisory only.