

LUBCARE™

LUBRICATION OIL Analysis Report

Vessel Name : **EUROPEAN VISION**
 Customer : **Vision Shipping Inc.**
 Equipment : **Main Engine**
 Sampling Point : **After Purifier**

Vessel IMO : **9244267**
 Report Date : **July 18, 2017**
 Rep. Ref. No : **1707112035-46**

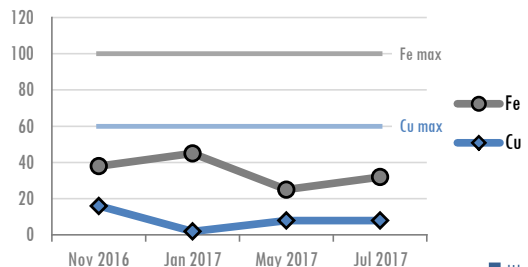
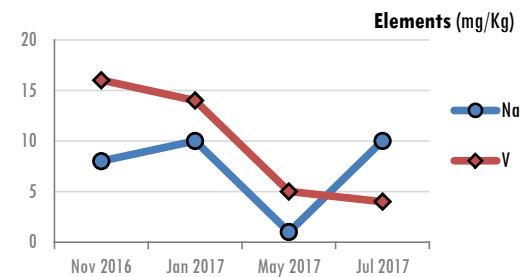
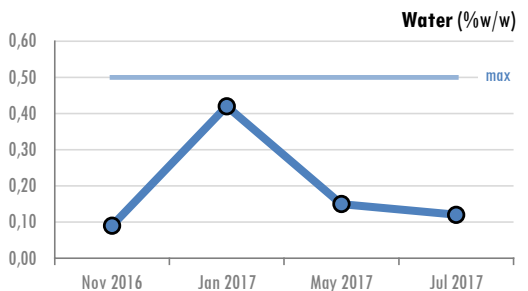
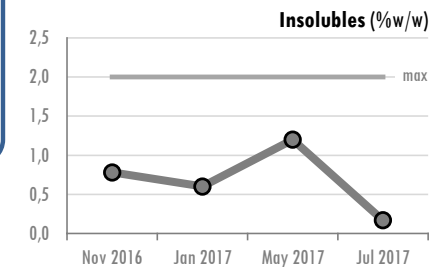
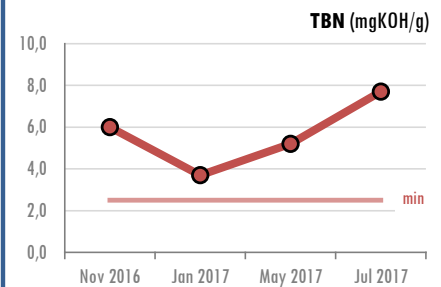
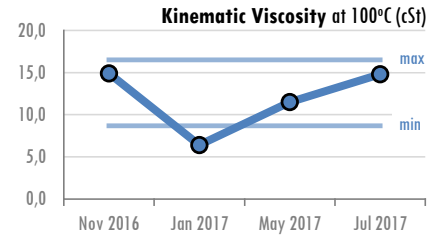


RESULTS		
Date Sampled		July 12, 2017
Port Sampled		Las Palmas
Oil Brand Name		Shell Melina S 30
Lubricant Life (Hours)		1.874
Equipment Life (Hours)		15.000
Kinematic Viscosity at 40°C	cSt	105,5
ASTM D7042		
Kinematic Viscosity at 100°C	cSt	14,8
ASTM D7042		
Viscosity Index		98
ASTM D2270		
Total Base Number (TBN)	mgKOH/g	7,7
ASTM D2896		
Total Acid Number (TAN)	mgKOH/g	-
ASTM D664		
Insolubles (in Pentane)	% w/w	0,17
ASTM D4055 mod.		
Water	% w/w	0,12
ASTM D6304		
Flash Point	°C	>200
ASTM D93		
Wear & Contamination Elements (ASTM D5185)		
Iron Fe	mg/Kg	32
Sodium Na	mg/Kg	10
Vanadium V	mg/Kg	4
Nickel Ni	mg/Kg	1
Copper Cu	mg/Kg	8
Aluminium Al	mg/Kg	1
Silicon Si	mg/Kg	5
Lead Pb	mg/Kg	Not Detected
Chromium Cr	mg/Kg	Not Detected
Tin Sn	mg/Kg	4
Additive Elements (ASTM D5185)		
Zinc Zn	mg/Kg	340
Phosphorus P	mg/Kg	256
Magnesium Mg	mg/Kg	24
Calcium Ca	mg/Kg	3.788

HISTORY			
	May 2017	Jan 2017	Nov 2016
	Singapore	At Sea	Rotterdam
Total Atlanta MD 3005	Total Atlanta MD 3005	Total Atlanta MD 3005	Total Atlanta MD 3005
	1.654	1.210	984
	14.156	13.526	11.523
	102,6	88,1	103,4
	11,5	6,4	14,9
	101	98	100
	5,2	3,7	6,0
	-	-	-
	1,20	0,60	0,78
	0,15	0,42	0,09
	>200	>200	>200
	25	45	38
	1	10	8
	5	14	16
	Not Detected	2	1
	8	2	16
	1	2	1
	5	4	2
	1	Not Detected	2
	Not Detected	1	1
	3	4	6
	349	363	370
	271	288	290
	18	24	22
	3.960	4.302	4.652

Shell Melina S 30
typical specifications

- 104,0
- 11,6
- 102
- 5,0
- <2,0
- <0,5
- 227



COMMENTS

As water and insolubles content are moderate, the separator efficiency cannot be expected higher.

Spectroscopy analysis did not show evidence of significant wear.

Oil suitable for further use.