



Lubricant Quality Scan
 Intertek Sunbury Technology Centre
 Unit A Shears Way, Brooklands Close
 Sunbury, Middlesex
 UK TW16 7EE
 Tel: +44 (0) 1932 732 161
 email: LQS@intertek.com

Vessel: M V Example	Equipment: MAIN ENGINE PORT
LR Number: 9152143	Manufacturer: YANMAR
Client: SHINY SHIPPING	Model: T260A-ET
	Oil Grade: SHELL RIMULA X 40
	Oil Volume litres:
	Fuel Grade:

Sequential Results	Current	14	13	12	11		
LQS Reference	WTL08-00597	WTL08-00003	WTL07-00802	WTL07-00334	WTL06-01159		
Sampling Point	NOT STATED	NOT STATED	NOT STATED	SUMP TANK	NOT STATED		
Date Sampled	15.02.2008	23.11.2007	12.07.2007	22.03.2007	06.10.2006		
Date Dispatched	12.03.2008	27.12.2007	24.07.2007	26.03.2007	13.10.2006		
Dispatched From	CLARA	CLARA	CLARA	CLARA	CLARA		
Unit Service Hours		8000	8345				
Oil Service Hours		2060	8345				
Daily Make Up (ltrs)		20	20				

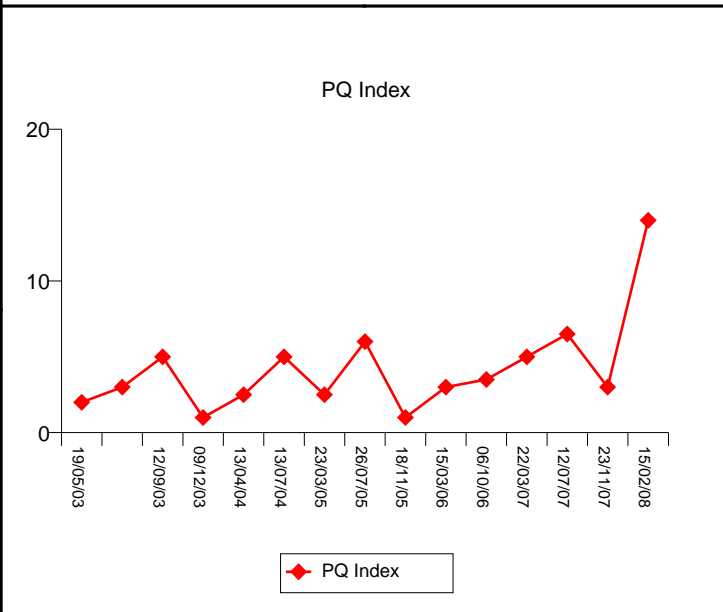
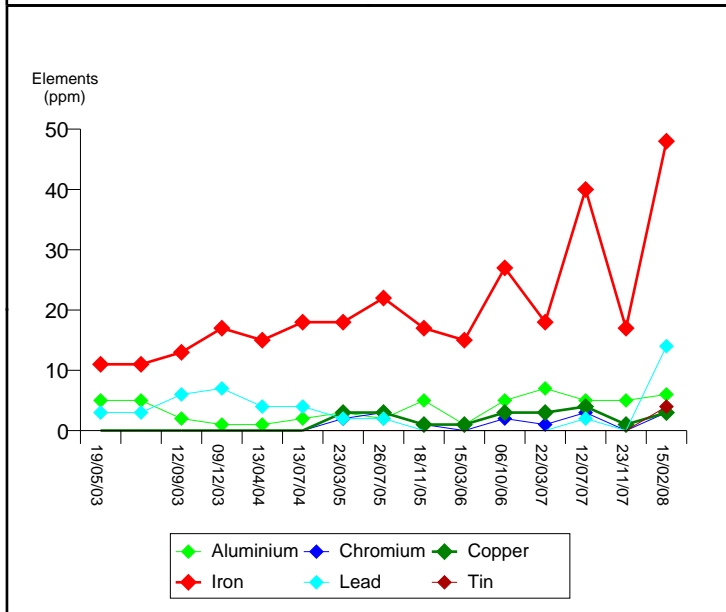
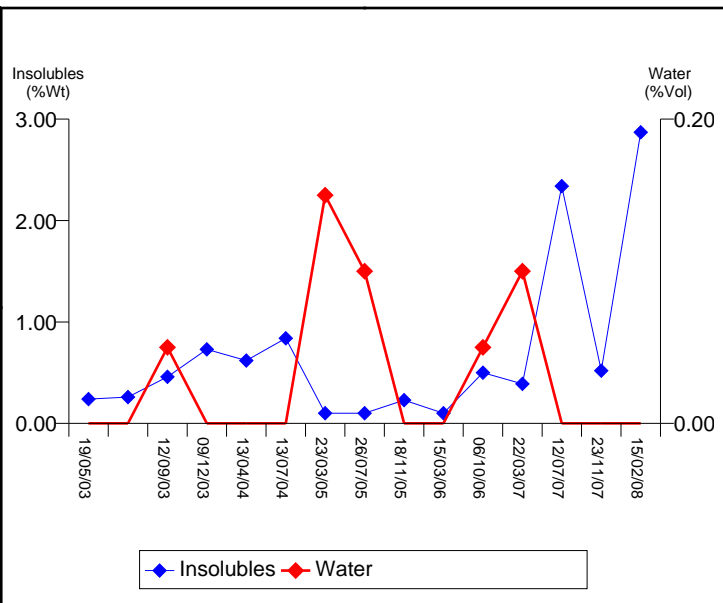
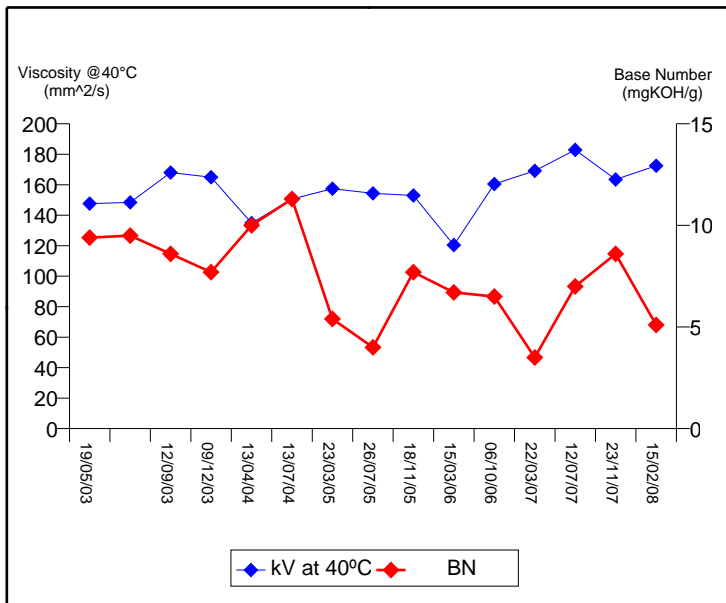
Analysis	Current	14	13	12	11	Manufacturer	New
Colour	BLACK	BLACK	BLACK	BLACK	BLACK		
Appearance	OPAQUE	OPAQUE	OPAQUE	OPAQUE	OPAQUE		
K Viscosity at 40oC cSt	172.5	163.5	182.9	169.2	160.5	+/- 25%	141
Flash Point oC	>200	>200	>200	>200	>200	>180	250
Water Content % (V/V)	<0.05	<0.05	<0.05	0.1	0.05	<0.3	
Nature of Water							
Pentane Insolubles % (m/m)	2.87	0.52	2.34	0.39	0.5	<2.0	
Base Number mgKOH/g	5.1	8.6	7	3.5	6.5		10
Sodium mg/kg	650	600	700	600	480		
Silicon mg/kg	14	10	13	9	9		
Magnesium mg/kg	15	14	16	11	11		
Zinc mg/kg	1300	1200	1500	1300	1300		
Calcium mg/kg	4000	3900	4700	4000	4000		
Phosphorus mg/kg	1100	1000	1300	1100	1100		
Aluminium mg/kg	6	5	5	7	5		
Chromium mg/kg	3	<1	3	1	2		
Copper mg/kg	3	1	4	3	3		
Iron mg/kg	48	17	40	18	27		
Lead mg/kg	14	<1	2	<1	<1		
Nickel mg/kg	23	11	27	14	26		
Tin mg/kg	4	<1	<1	<1	<1		
Vanadium mg/kg	65	31	81	42	84		
PQ Index /ml	14	3	6.5	5	3.5		

Oil Unit Rating	C/B	A/A	C/B	C/A	B/A		
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Rating Key

A = Suitable for Further Service
 C = Remedial action required

B = Alert Levels
 D = Unsuitable Charge



Comments on the Current Sample:-

OIL RATING: The sample as tested contains a negligible amount of water and the flashpoint is satisfactory. However, the level of insolubles is above the engine manufacturers operational limit, the viscosity is approaching the engine manufacturer's operational limit and the reserve of alkalinity is depleted. The oil is suitable for continued service provided the level of insolubles and base number are addressed.

UNIT RATING: Analysis of the wear and contaminant elements shows increased iron and PQ index. These trends should continue to be closely monitored to determine the rate of any undue wear. The elements magnesium through to phosphorus are lubricant additives, nickel and vanadium are fuel related.

ACTION: 1) Engage intensive purification to reduce insolubles content. 2) Part replacement of the oil charge is required to address low base number.

This report is issued in support of the requirement for preventative maintenance in respect of clause 10 of the ISM Code (2002).

Next Sample: 15 May 2008

Report Date: 27 March 2008

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