

ILS ENGINEERING LTD

Lab Ref: ILS 1278
Report Date: 26/08/2009
Discrepancy: Viscosity of lubricant lower than specification.
Action: Continue in Service.
 Resample at regular intervals.

Condition: Satisfactory

Recommendations are based on the validity of the sample as received.

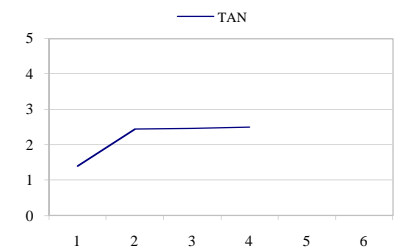
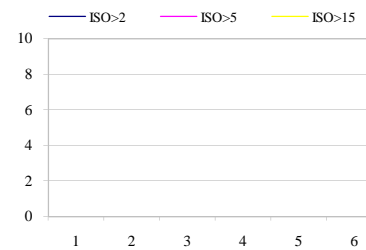
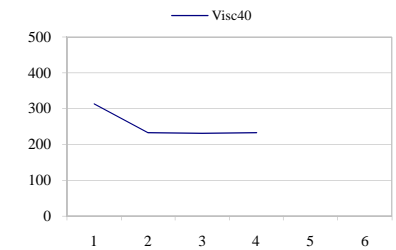
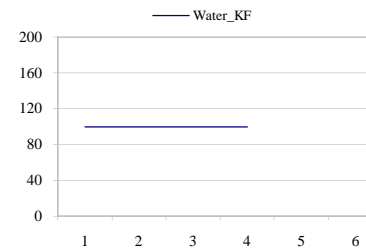
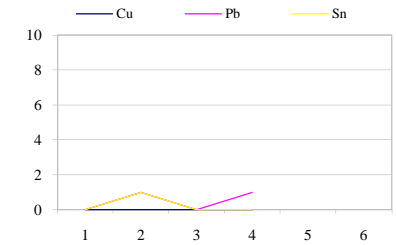
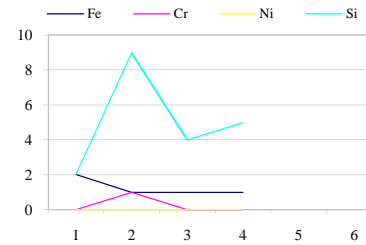
Lab	Ref Received	765 15/01/08	952 31/07/08	1034 09/10/08	1278 26/08/09		
Sample	Sample Date	28/12/07	25/07/08	03/10/08	24/08/09		
	Sample No	-	6136	6455.001	7692.003		
	Equip Hours	-	-	-	-		
	Lube Hours	-	-	-	-		
Elements ppm	Iron	2	1	1	1		
	Chromium	0	1	0	0		
	Aluminium	1	0	0	0		
	Copper	0	0	0	0		
	Lead	0	1	0	1		
	Nickel	0	0	0	0		
	Tin	0	1	0	0		
	Manganese	0	0	0	0		
	Titanium	0	0	0	0		
	Silver	0	1	0	0		
	Molybdenum	0	1	0	0		
	Zinc	2	1	1	2		
	Phosphorus	721	632	668	727		
	Calcium	5	1	1	2		
	Barium	0	0	0	0		
	Magnesium	0	1	0	1		
	Silicon	2	9	4	5		
	Sodium	1	2	0	0		
	Boron	170	117	112	100		
	Vanadium	0	0	0	0		
Physical Tests	ISO Code	-	-	-	-		
	PO	8	9	14	19		
	Water (%)	-	-	-	-		
	Water (ppm)	100	100	100	100		
TBN/TAN	TBN	-	-	-	-		
	TAN	1.40	2.45	2.47	2.49		
Viscosities	Visc @ 40°C	313	234*	232	234*		
	Visc @ 100°C	-	-	-	-		

Action Taken:

Customer: Cadburys
Site: First Floor 4 Meter
Equipment: P6211 : Pump Gear / Gearbox
Lubricant: Mainlube 150 SAE 140

ISO Code: - (ILS 1034)

ISO Code: - (ILS 1278)



ILS ENGINEERING LTD

Lab Ref: ILS 1277
Report Date: 26/08/2009
Discrepancy: Viscosity of lubricant lower than specification.
Action: Continue in Service.
 Resample at regular intervals.

Condition: Satisfactory

Recommendations are based on the validity of the sample as received.

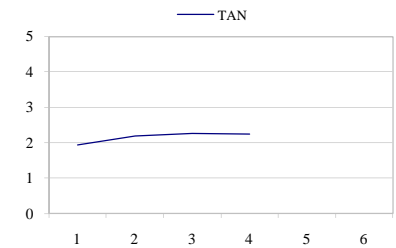
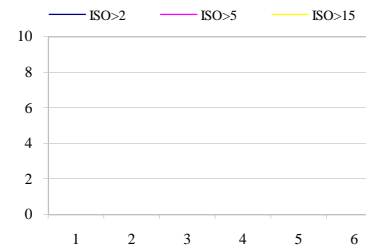
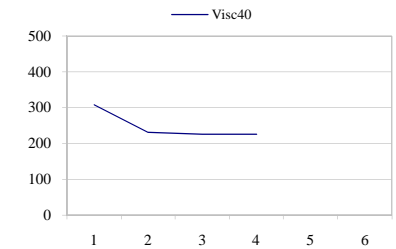
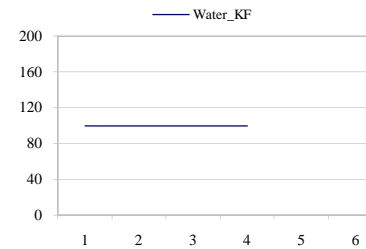
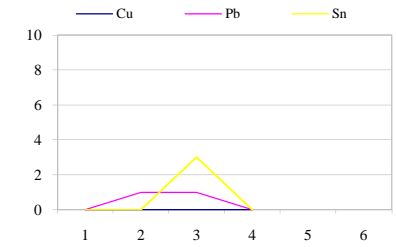
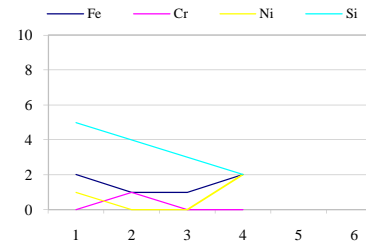
Lab	Ref Received	780 15/01/08	948 31/07/08	1035 09/10/08	1277 26/08/09		
Sample	Sample Date	28/12/07	25/07/08	03/10/08	24/08/09		
	Sample No	-	6136	6455.002	7692.002		
	Equip Hours	-	-	-	-		
	Lube Hours	-	-	-	-		
Elements ppm	Iron	2	1	1	2		
	Chromium	0	1	0	0		
	Aluminium	1	0	0	3		
	Copper	0	0	0	0		
	Lead	0	1	1	0		
	Nickel	1	0	0	2		
	Tin	0	0	3	0		
	Manganese	0	0	0	0		
	Titanium	0	0	0	0		
	Silver	0	0	0	0		
	Molybdenum	1	0	0	1		
	Zinc	2	1	2	3		
	Phosphorus	756	718	749	698		
	Calcium	4	1	1	2		
	Barium	0	0	0	0		
	Magnesium	1	0	1	0		
	Silicon	5	4	3	2		
	Sodium	0	1	0	0		
	Boron	148	158	152	139		
	Vanadium	1	0	1	1		
Physical Tests	ISO Code	-	-	-	-		
	PO	9	25	22	5		
	Water (%)	-	-	-	-		
	Water (ppm)	100	100	100	100		
TBN/TAN	TBN	-	-	-	-		
	TAN	1.94	2.19	2.27	2.24		
Viscosities	Visc @ 40°C	309	231*	226	226*		
	Visc @ 100°C	-	-	-	-		

Action Taken:

Customer: Cadburys
Site: First Floor 4 Meter
Equipment: P6221 : Tank Agitator / Gearbox
Lubricant: Mainlube 150 SAE 140

ISO Code: - (ILS 1035)

ISO Code: - (ILS 1277)



ILS ENGINEERING LTD

Lab Ref: ILS 1279
Report Date: 26/08/2009
Discrepancy: Normal
Action: Continue in Service.
 Resample at regular intervals.

Condition: Satisfactory

Recommendations are based on the validity of the sample as received.

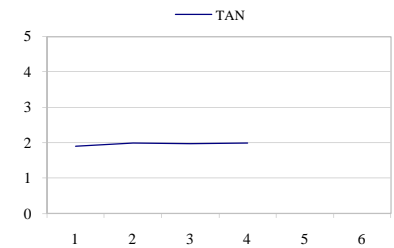
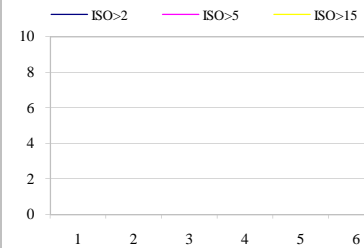
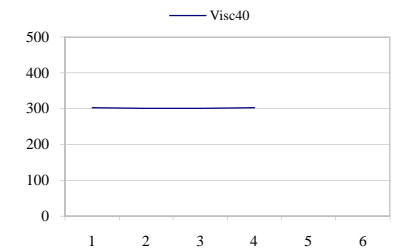
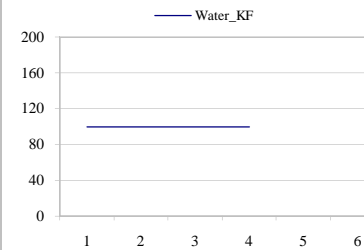
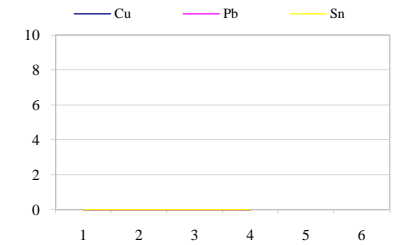
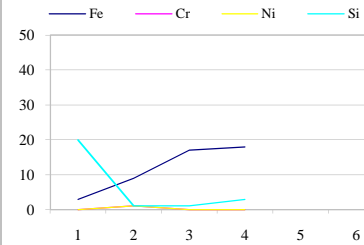
Lab	Ref Received	763 15/01/08	950 31/07/08	1095 16/01/09	1279 26/08/09		
Sample	Sample Date	28/12/07	25/07/08	09/01/09	24/08/09		
	Sample No	-	6136	6807.003	7692.004		
	Equip Hours	-	-	-	-		
	Lube Hours	-	-	-	-		
Elements ppm	Iron	3	9	17	18		
	Chromium	0	1	0	0		
	Aluminium	0	0	1	2		
	Copper	0	0	0	0		
	Lead	0	0	0	0		
	Nickel	0	1	0	0		
	Tin	0	0	0	0		
	Manganese	0	0	0	1		
	Titanium	0	0	0	0		
	Silver	0	0	0	0		
	Molybdenum	0	1	0	0		
	Zinc	2	2	4	4		
	Phosphorus	572	601	616	594		
	Calcium	1	1	2	2		
	Barium	0	1	0	1		
	Magnesium	0	0	0	0		
	Silicon	20	1	1	3		
	Sodium	0	1	1	1		
	Boron	126	121	112	107		
	Vanadium	0	0	0	0		
Physical Tests	ISO Code	-	-	-	-		
	PO	16	14	32	12		
	Water (%)	-	-	-	-		
	Water (ppm)	100	100	100	100		
TBN/TAN	TBN	-	-	-	-		
	TAN	1.91	2.00	1.97	1.99		
Viscosities	Visc @ 40°C	303	302	301	303		
	Visc @ 100°C	-	-	-	-		

Action Taken:

Customer: Cadburys
Site: First Floor 4 Meter
Equipment: P6231 : Pump Gear / Gearbox
Lubricant: Mainlube 150 SAE 140

ISO Code: - (ILS 1095)

ISO Code: - (ILS 1279)



ILS ENGINEERING LTD

Lab Ref: ILS 1276
 Report Date: 26/08/2009
 Discrepancy: Normal
 Action: Continue in Service.
 Resample at regular intervals.

Condition: **Satisfactory**

Recommendations are based on the validity of the sample as received.

Lab	Ref Received	771 15/01/08	943 31/07/08	1096 16/01/09	1276 26/08/09		
Sample	Sample Date	28/12/07	25/07/08	09/01/09	24/08/09		
	Sample No	-	6136	6807.004	7692.001		
	Equip Hours	-	-	-	-		
	Lube Hours	-	-	-	-		
Elements ppm	Iron	3	4	9	5		
	Chromium	0	1	0	0		
	Aluminium	0	0	2	2		
	Copper	1	0	0	0		
	Lead	0	0	0	0		
	Nickel	0	0	0	1		
	Tin	0	0	0	0		
	Manganese	0	0	0	0		
	Titanium	0	1	0	0		
	Silver	0	1	0	0		
	Molybdenum	0	1	0	0		
	Zinc	2	2	3	3		
	Phosphorus	717	736	597	653		
	Calcium	6	5	7	8		
	Barium	0	0	1	0		
	Magnesium	0	0	0	0		
	Silicon	3	3	2	1		
	Sodium	0	1	1	1		
	Boron	165	179	145	155		
	Vanadium	1	0	1	0		
Physical Tests	ISO Code	-	-	-	-		
	PO	16	16	38	10		
	Water (%)	-	-	-	-		
TBN/TAN	Water (ppm)	100	100	100	100		
	TBN	-	-	-	-		
Viscosities	TAN	1.66	1.55	1.86	1.73		
	Visc @ 40°C	323	322	320	319		
	Visc @ 100°C	-	-	-	-		

Action Taken:

Customer: Cadburys
 Site: First floor 4 Meter
 Equipment: P6241 : Pump Gear / Gearbox
 Lubricant: Mainlube 150 SAE 140

ISO Code: - (ILS 1096)

ISO Code: - (ILS 1276)

