

# ILS Engineering Ltd

Lab Ref: ILS 553

Report Date: 25/06/2007

Discrepancy: Note the chromium continues to increase

Action: Check unit for oil consumption and black exhaust smoke  
Monitor at reduced interval to maintain close surveillance.

Condition: **Marginal**

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

Lab	Ref	456	523	534	540	553	
	Received	21/11/06	22/02/07	27/04/07	16/05/07	22/06/07	
Sample	Sample Date	11/11/06	05/02/07	30/03/07	03/05/07	05/06/07	
	Sample No	-	-	-	-	-	
	Equip Hours	4	447	1075	1671	2000	
	Lube Hours	1	447	1075	612	330	
Elements ppm	Iron	2	12	19	9	12	
	Chromium	1	0	26*	27*	40*	
	Aluminium	0	0	0	0	0	
	Copper	1	2	2	1	1	
	Lead	2	1	2	2	1	
	Nickel	0	0	0	0	0	
	Tin	0	0	0	0	0	
	Manganese	2	1	1	1	1	
	Titanium	0	0	0	0	0	
	Silver	0	0	0	0	0	
	Molybdenum	87	82	56	68	57	
	Zinc	585	785	760	810	735	
	Phosphorus	990	1065	894	971	867	
	Calcium	863	1056	1304	2053	869	
	Barium	0	0	0	0	0	
	Magnesium	10	12	14	13	15	
	Silicon	14	11	9	13	10	
	Sodium	2	2	4	6	5	
	Boron	2	3	9	6	10	
	Vanadium	2	0	0	0	0	
Physical Tests	ISO Code	-	-	-	-	-	
	PO	7	14	31	18	21	
	Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	
	Water (ppm)	-	-	-	-	-	
TBN/TAN	TBN	10.2	9.7	9.3	9.9	9.3	
	TAN	2.5	3.0	3.2	3.0	3.1	
Viscosities	Visc @ 40C	103	95	85	94	91	
	Visc @ 100C	14.1	13.1	12.0	12.9	12.4	

Action Taken:

Site:  
Equipment: 3191  
Lubricant: 15W/40

ISO Code: - (ILS 540)

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