

WEAR CHECK

Diesel Engine



OIL AND EQUIPMENT CONDITION REPORT

UNIT NO.	SBS 0920X	DATE SAMPLED	12/02/05	COMPARTMENT NAME	Diesel Engine
UNIT MAKE	Volvo	DATE RECEIVED	15/02/05	COMPARTMENT MAKE	Volvo
UNIT MODEL	.	DATE REPORTED	23/02/05	COMPARTMENT MODEL	Mk4
UNIT SERIAL NO.				COMPARTMENT SERIAL NO.	
SYSTEM CAPACITY	Ltrs			MACHINE LOCATION	HG

UIN 537FF

DIAGNOSIS

Current Sample :

All wear rates normal. Abrasive and other contaminant levels acceptable. Viscosity within specified operating range.

Action: Resample next service interval to further monitor. NOTE: This is an amended report, please disregard previous issue. NOTE: Please confirm stated time on oil.

Last Sample :

All wear rates normal. Abrasive and other contaminant levels acceptable. Viscosity within specified operating range.

Action: Resample next service interval to further monitor.



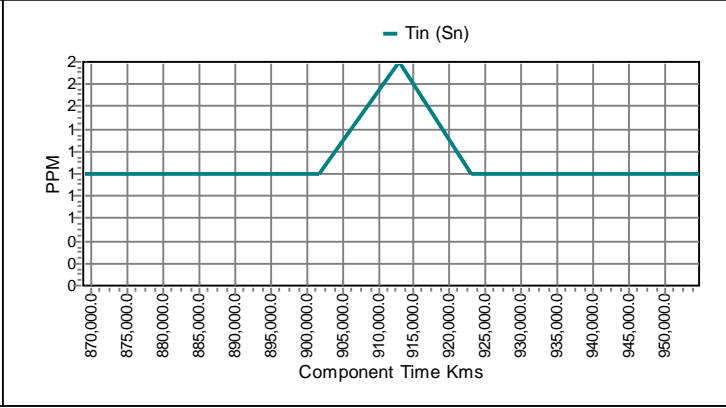
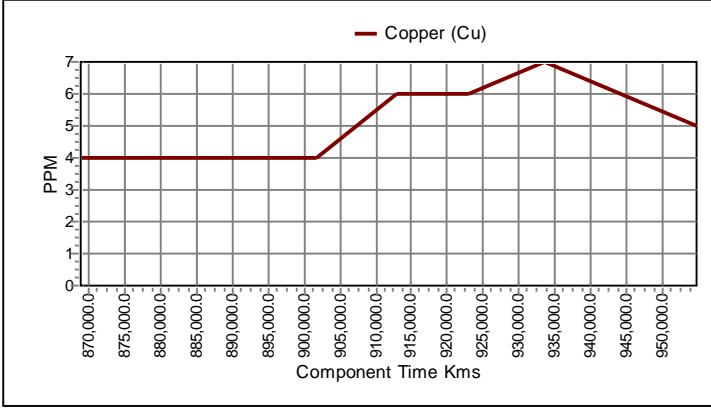
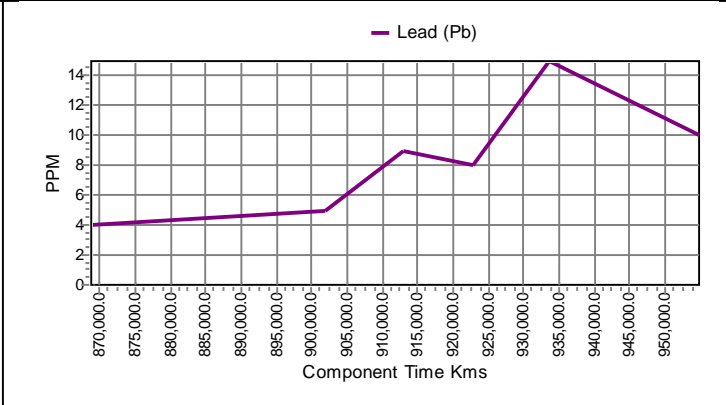
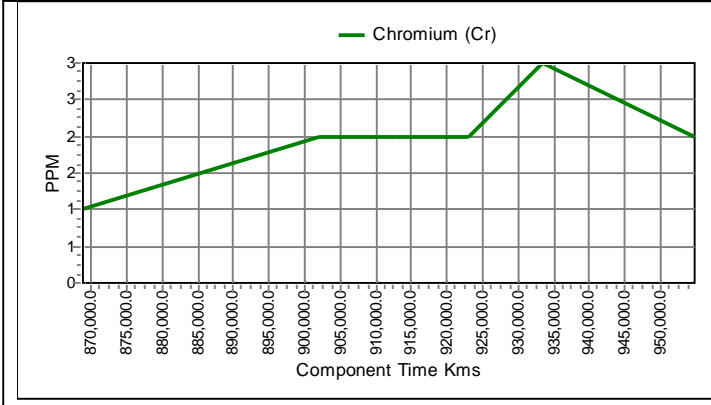
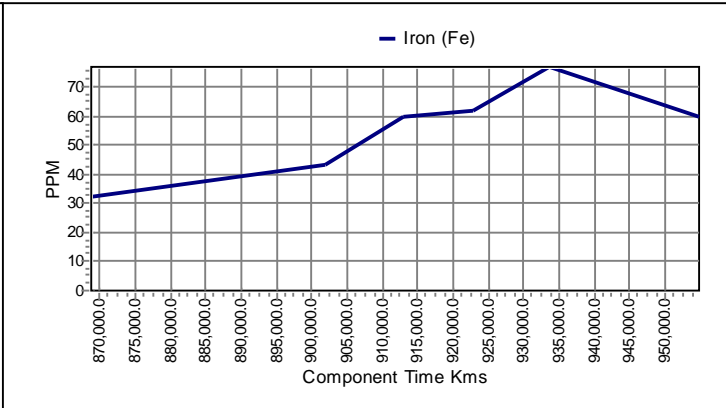
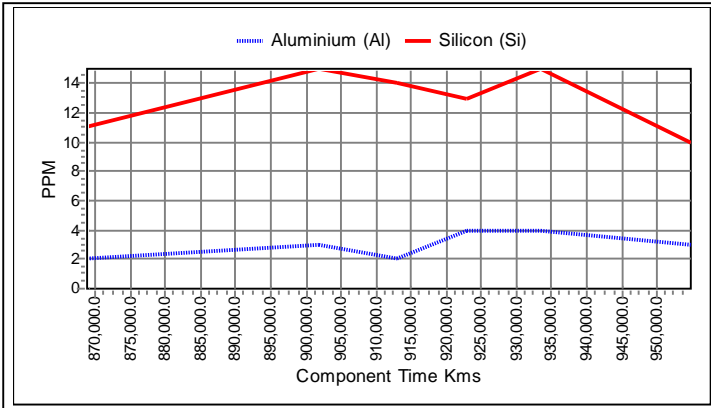
LEGEND

- SEVERE**
- ABNORMAL**
- CAUTION**
- NORMAL**

		12/02/05	08/09/04	20/07/04	01/07/04	23/04/04	04/12/03
DATE SAMPLED		12/02/05	08/09/04	20/07/04	01/07/04	23/04/04	04/12/03
SAMPLE NO.		5796533	5615449	5615151	5615045	5614621	5531299
COMPONENT	Kms	954803	933575	922925	912904	901844	868825
MACHINE	Kms	954803	933575	922925	912904	901844	868825
OIL	Kms	90000	60000	50000	40000	Not Provided	Not Provided
OIL MAKE		ESSO	ESSO	ESSO	ESSO	ESSO	ESSO
OIL TYPE		ESSO	ESSO	ESSO	ESSO	ESSO	ESSO
OIL GRADE		SAE 40	SAE 40	SAE 40	SAE 40	SAE 40	SAE 40
OIL ADDED	Ltrs	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
FILTER	Kms	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
OIL CHANGED		Not Changed	Not Changed	Not Changed	Not Provided	Not Provided	Not Provided
Metals (ppm)							
Aluminium (Al)		3	4	4	2	3	2
Copper (Cu)		5	7	6	6	4	4
Chromium (Cr)		2	3	2	2	2	1
Iron (Fe)		60	77	62	60	43	32
Lead (Pb)		10	15	8	9	5	4
Tin (Sn)		< 1	1	< 1	2	1	< 1
Nickel (Ni)		1	< 1	1	1	2	1
Contaminants and Additives (ppm)							
Silicon (Si)		10	15	13	14	15	11
Boron (B)		< 5	< 5	< 5	< 5	< 5	7
Sodium (Na)		7	15	5	5	4	8
Potassium (K)		1	< 1	1	2	< 1	< 1
Phosphorus (P)		1238	1427	1377	1258	1166	1145
Molybdenum (Mo)		1	2	2	2	1	1
Calcium (Ca)		2584	3108	2915	2757	2558	2522
Magnesium (Mg)		307	378	336	279	312	274
Zinc (Zn)		1416	1791	1633	1530	1416	1351
Physical Tests							
Water (% by FTIR)		<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1
Soot %		1.2	2.1	1.9	2	1.6	1.5
Viscosity (cSt,100°C)		14	13.6	14.1	14.3	13.3	12.8
Oxidation (Abs)		13.5	13.6	15.8	16	14.7	12.5
Fuel %		1	1	1	1	1	2
Total Base Number (D2896)		8.7	8.5	8.1	6.8	7.2	8.2

WC
4008028
Amy_Sol
Nick.Thomas





"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sample techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."

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