

Programmed Oil Sampling

CLIENT NAME
UNITED CIVIL RESOURCES PTY LTD
CLIENT ADDRESS
Unit 5 37 Little Kylie Street
Rutherford NSW 2320

MAKE Volvo
MODEL A40G
SERIAL No. 324851
UNIT No. UCR151
COMPARTMENT TYPE Diesel Engine
COMPARTMENT NAME Diesel Engine
MACHINE LOCATION Rutherford
SYSTEM CAPACITY 54.0 Ltrs

CURRENT SAMPLE STATUS Normal

UIN : 0A568B0

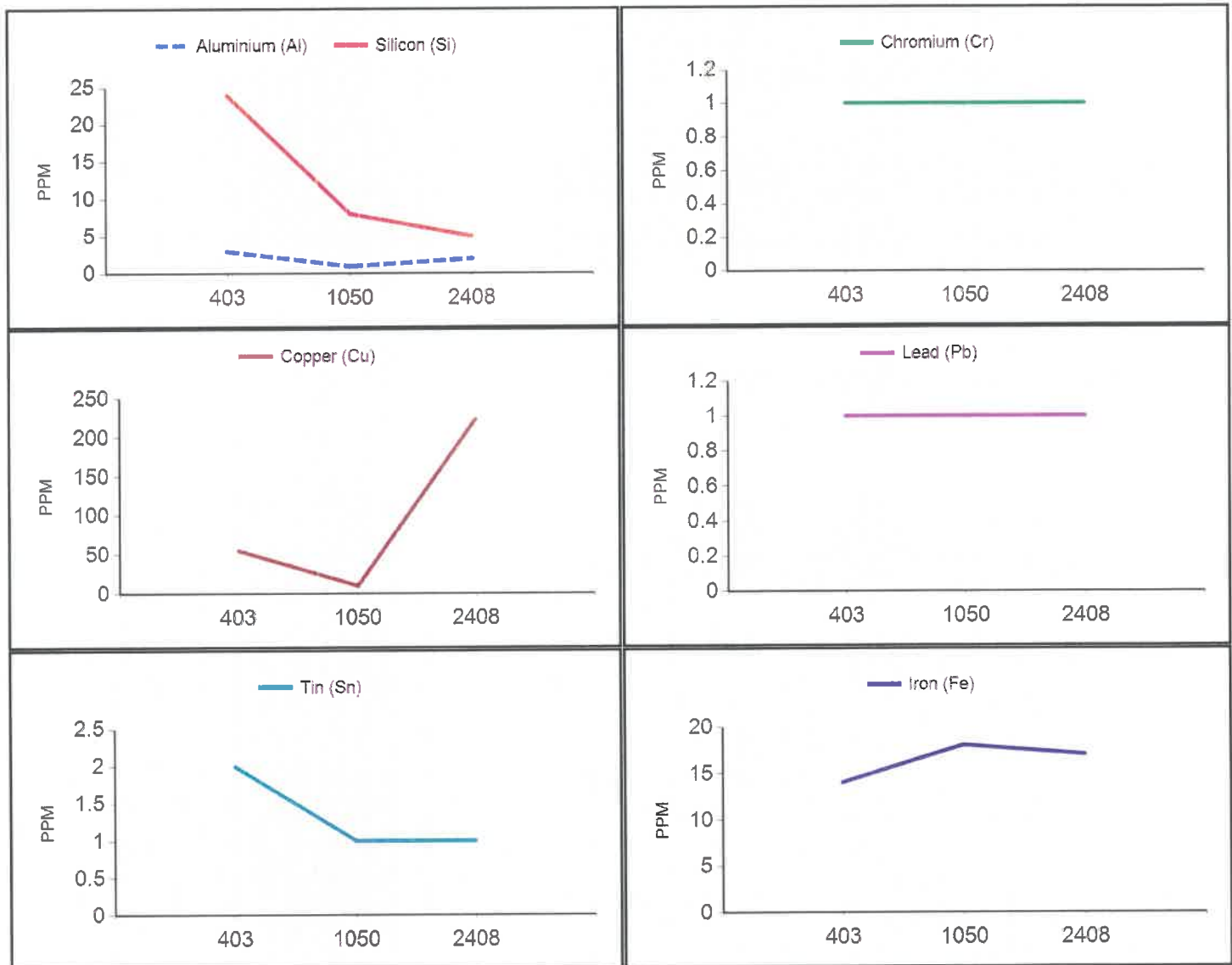
		CURRENT	2	3	4	5
SAMPLE NO.		47963921	46491582	46492051		
SAMPLED DATE		28-Aug-25	22-Jun-24	02-Nov-23		
DATE RECEIVED		22-Sep-25	28-Jun-24	05-Dec-23		
OIL MAKE		Pro-Glide Extreme	Pro-Glide Extreme	Volvo		
OIL GRADE		SAE 15W40	SAE 15W40	SAE 15W40		
MACHINE	Hrs	2408	1050	403		
COMPONENT	Hrs	2408	1050	403		
OIL	Hrs	500	500	403		
OIL ADDED	Ltrs	0.0				
FILTER	Hrs	500	500	403		
OIL CHANGED		Changed	Changed	Changed		
WORK ORDER						
Metals (ppm)						
Aluminium (Al)		2	1	3		
Copper (Cu)		223	10	55		
Chromium (Cr)		<1	<1	<1		
Iron (Fe)		17	18	14		
Lead (Pb)		<1	<1	1		
Tin (Sn)		1	1	2		
Contaminants (ppm)						
Silicon (Si)		5	8	24		
Boron (B)		9	5	56		
Sodium (Na)		1	<1	2		
Potassium (K)		<1	<1	1		
Phosphorus (P)		843	990	930		
Molybdenum (Mo)		11	68	83		
Magnesium (Mg)		83	856	11		
Calcium (Ca)		2069	1115	2029		
Zinc (Zn)		1061	1132	1054		
Physical Tests						
Water (%) (FTIR)		<0.1	<0.1	<0.1		
Fuel (%)		2		3		
Soot (%) (FTIR)		0.2	0.3	<0.1		
Viscosity (cSt, 100°C)		12.0	11.2	10.1		
Oxidation (Abs) (FTIR)		13.2	15.4	14.3		
PQ Index		<10	<10	<10		
Sulphation (Abs) (FTIR)		25.2	24.6	19.6		
Total Base Number (FTIR)		5.0	7.9	6.6		

DIAGNOSIS

High Copper level in isolation is probably a result of leaching of oil cooler core/oil additive reaction and does not indicate wear. All other wear levels within limits. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range, however additive package indicates a mixture of oils. Action: As oil and filter(s) already changed, resample next recommended service interval to further monitor.

GRAPHICAL WEAR TREND DATA

UIN:0A568B0



"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling 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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