

OIL ANALYSIS REPORT





Machine Id VOLVO L110G Y614 (S/N VCEL110GC000089618) Component Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We advise that you monitor for an abnormal oil pressure drop and noise. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

A Wear

Lead ppm levels are severe. Chromium, copper and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Ring wear is indicated. Bearing wear is indicated.

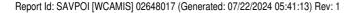
Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

Fluid Condition

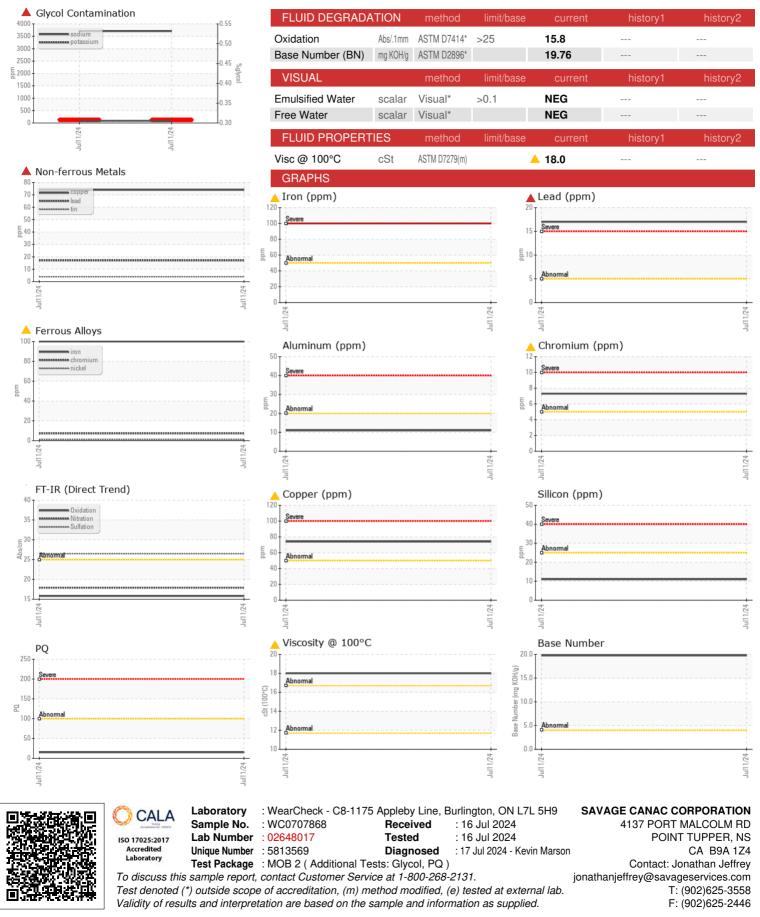
The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0707868		
Sample Date		Client Info		11 Jul 2024		
Machine Age h	irs	Client Info		6850		
Oil Age h	irs	Client Info		200		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0		
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		15		
lron p	pm	ASTM D5185(m)	>50	<u> </u>		
Chromium p	pm	ASTM D5185(m)	>5	<u> </u>		
		ASTM D5185(m)	>3	1		
Titanium p	pm	ASTM D5185(m)		<1		
		ASTM D5185(m)	>2	<1		
Aluminum p	pm	ASTM D5185(m)	>20	11		
Lead p	pm	ASTM D5185(m)	>5	1 7		
Copper p	pm	ASTM D5185(m)	>50	<u> </u>		
	pm	ASTM D5185(m)	>4	4		
Antimony p	pm	ASTM D5185(m)		0		
Vanadium p	pm	ASTM D5185(m)		<1		
Beryllium p	nm	ACTM DE10E(m)		0		
Derymunn p	pm	ASTM D5185(m)		0		
		ASTM D5185(m) ASTM D5185(m)		0		
		· · /	limit/base			
Cadmium p ADDITIVES	pm	ASTM D5185(m)	limit/base	0		
Cadmium p ADDITIVES Boron p	opm	ASTM D5185(m)	limit/base	0 current	 history1	 history2
Cadmium p ADDITIVES Boron p Barium p	opm opm opm	ASTM D5185(m) method ASTM D5185(m)	limit/base	0 current 16	 history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p	opm opm opm opm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1	 history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p	opm opm opm opm opm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82	 history1 	 history2
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiump	opm opm opm opm opm opm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2	 history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p	opm opm opm opm opm opm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801	 history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801 1101	 history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Zinc p	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801 1101 1096	 history1 	 history2
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiumpCalciumpPhosphoruspZincpSulfurp	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801 1101 1096 1153	+ history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Zinc p Sulfur p	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801 1101 1096 1153 2871	+ history1 	 history2
Cadmium p ADDITIVES Boron p Barium p Molybdenum p Manganese p Magnesium p Calcium p Phosphorus p Zinc p Sulfur p Lithium p	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 current 16 1 82 2 801 1101 1096 1153 2871 <1	history1	 history2 -
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepCalciumpPhosphoruspZincpSulfurpLithiumpCONTAMINANTSSiliconp	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801 1101 1096 1153 2871 <1 current	 history1 -	 history2 -
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiumpCalciumpPhosphoruspZincpSulfurpLithiumpCONTAMINANTSSiliconSodiump	apm appm appm appm appm appm appm appm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base	0 current 16 1 82 2 801 1101 1096 1153 2871 <1 current 11	 history1 -	 history2 -
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiumpCalciumpPhosphoruspZincpSulfurpLithiumpCONTAMINANTSSiliconSodiump	apm apm apm apm apm apm apm apm apm apm	ASTM D5185(m) ASTM D5185(m)	limit/base >25	0 current 16 1 82 2 801 1101 1096 1153 2871 <1 current 11 0 3706	history1 history1	 history2 history2 history2
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiumpCalciumpPhosphoruspZincpSulfurpLithiumpCONTAMINANTSSiliconpSodiumpPotassiump	apm apm apm apm apm apm apm apm apm apm	ASTM D5185(m) ASTM D5185(m)	limit/base >25	0 current 16 1 82 2 801 1101 1096 1153 2871 <1 current 11 3706 ▲ 86	history1 history1 </td <td> history2 history2 history2 </td>	 history2 history2 history2
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiumpCalciumpPhosphoruspZincpSulfurpLithiumpCONTAMINANTSSiliconSiliconpSodiumpPotassiumpGlycol%	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base >25 >20	0 Current 16 1 82 2 801 1101 1096 1153 2871 <1 <1 Current 11 3706 ▲ 86 ▲ 0.313	history1	history2
CadmiumpADDITIVESBoronpBariumpMolybdenumpManganesepMagnesiumpCalciumpPhosphoruspZincpSulfurpLithiumpSoliconpSodiumpPotassiumpGlycol%INFRA-REDSoot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	limit/base >25 >20 limit/base	0 current 16 1 82 2 801 1101 1096 1153 2871 <1 current 11 3706 ▲ 86 ▲ 0.313 current	 history1 history1 	 history2 history2





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