**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

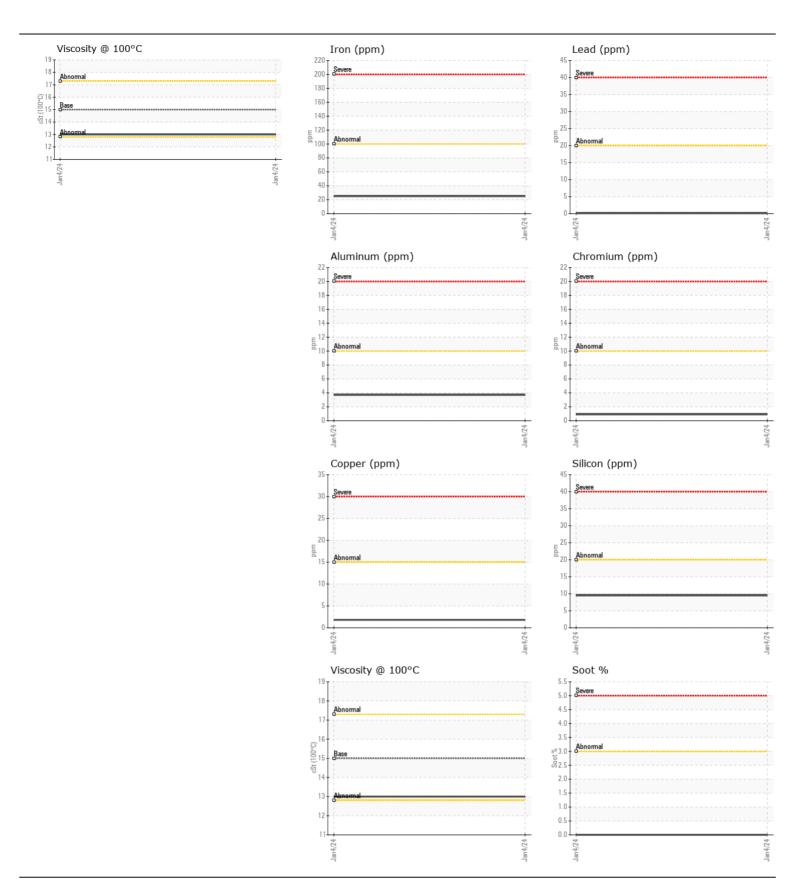


Area [8000389977]

**VOLVO EC220EL 315112** 

Component Diesel Engine

	UOM	Method	Limit/Abn	Current	History1	History
Sample Number		Client Info		VCP393144		
Sample Date		Client Info		04 Jan 2024		
Machine Age	hrs	Client Info		654		
Oil Age	hrs	Client Info		654		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>100	25		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm			2		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>10	4		
Lead	ppm	ASTM D5185(m)	>20	<1		
Copper	ppm	ASTM D5185(m)	>15	2		
Tin	ppm	ASTM D5185(m)	>10	1		
Vanadium	ppm	ASTM D5185(m)		0		
Silicon	ppm	ASTM D5185(m)	>20	10		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Fuel		WC Method	>6.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	7.2		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Sodium	ppm	ASTM D5185(m)		3		
Boron	ppm	ASTM D5185(m)	2.5	31		
Barium	ppm	ASTM D5185(m)	0.0	<1		
Molybdenum	ppm	ASTM D5185(m)	0.7	41		
Manganese	ppm	ASTM D5185(m)	0.0	<1		
Magnesium	ppm	ASTM D5185(m)	256	477		
Calcium	ppm	ASTM D5185(m)	2057	1756		
Phosphorus	ppm	ASTM D5185(m)	935	938		
Zinc	ppm	ASTM D5185(m)	1223	1059		
Sulfur	ppm	ASTM D5185(m)	4079	2574		
Oxidation		ASTM D7414*		20.1		
	Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium  Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Emulsified Water  Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	Sample Date  Machine Age Oil Age hrs Filter Age Oil Changed Filter Changed Sample Status  Iron Chromium ppm Nickel Titanium ppm Silver Aluminum Lead ppm Copper Tin Vanadium Ppm Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Emulsified Water Sodium Ppm Boron Barium Manganese ppm Magnesium Ppm Phosphorus Pitter Priss Pri	Sample Date Machine Age Nrs Client Info Oil Age Nrs Client Info Oil Age Nrs Client Info Client Info Client Info Client Info Oil Changed Filter Changed Sample Status  Iron Chromium Ppm ASTM D5185(m) Nickel Ppm ASTM D5185(m) Titanium Ppm ASTM D5185(m) Aluminum Ppm ASTM D5185(m) Copper Ppm ASTM D5185(m) Tin Ppm ASTM D5185(m) Tin Ppm ASTM D5185(m) Vanadium Ppm ASTM D5185(m)  Silicon Ppm ASTM D5185(m)  ASTM D5185(m)  Silicon Ppm 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) ASTM D5185(m)  ASTM D5185(m)	Sample Date Machine Age Inrs Client Info Oil Age Inrs Client Info Filter Age Inrs Client Info Filter Age Inrs Client Info Oil Changed Filter Changed Client Info Sample Status  Iron Chromium Inro Chromium Inro Silver Inro Inro Inro Inro Inro Inro Inro Inr	Sample Date         Client Info         04 Jan 2024           Machine Age         hrs         Client Info         654           Oil Age         hrs         Client Info         654           Filter Age         hrs         Client Info         0           Oil Changed         Client Info         Changed           Filter Changed         Client Info         Changed           Sample Status         NORMAL           Iron         ppm         ASTM D5185(m)         >100         25           Chromium         ppm         ASTM D5185(m)         >10         21           Nickel         ppm         ASTM D5185(m)         >10         2           Titanium         ppm         ASTM D5185(m)         >2         0           Aluminum         ppm         ASTM D5185(m)         >2         0           Aluminum         ppm         ASTM D5185(m)         >10         4           Lead         ppm         ASTM D5185(m)         >10         1           Lead         ppm         ASTM D5185(m)         >10         1           Vanadium         ppm         ASTM D5185(m)         >20         <1	Sample Date         Client Info         04 Jan 2024





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

Unique Number : 5709757

: VCP393144 : 02608671 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed : Wes Davis Diagnostician

: 15 Jan 2024 : 15 Jan 2024

STRONGCO EQUIPMENT INC. 55 ISNOR DRIVE, BURNSIDE INDUSTRIALPARK

DARTMOUTH, NS CA B3B 1N6 Contact: Lindsay Downs ldowns@strongco.com T: (902)468-5010

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (902)468-2468