WEAR CONTAMINATION FLUID CONDITION

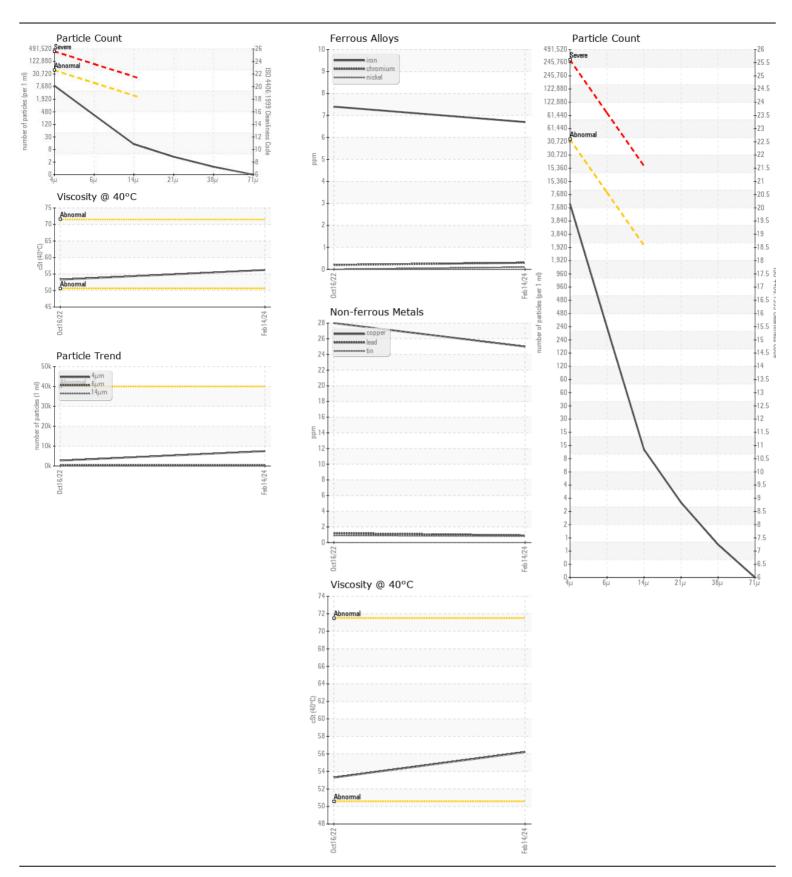
NORMAL NORMAL



CAVANAGH [394790]
Machine Id
VOLVO EC480EL 314289

Component Hydraulic System

	otor Oil 10W30) ((3AL)		.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HESSIMILITERATION	Sample Number		Client Info		VCP380074	,	
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Feb 2024	16 Oct 2022	
	Machine Age	hrs	Client Info		6034	4032	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>25	7	7	
All common and the an arches are marked	Chromium	ppm	ASTM D5185(m)	>10	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>10	<1	0	
	Titanium	ppm	ASTM D5185(m)		30	60	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>20	3	3	
	Lead	ppm	ASTM D5185(m)	>20	<1	1	
	Copper	ppm	ASTM D5185(m)	>150	25	28	
	Tin	ppm	ASTM D5185(m)	>10	<1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	<1	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>50	6	6	
Ti	Potassium	ppm	ASTM D5185(m)	>20	2	2	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4μm		ASTM D7647	>40000	7436	2713	
	Particles >6μm		ASTM D7647	>10000	294	495	
	Particles >14μm		ASTM D7647	>2500	12	43	
	Particles >21µm		ASTM D7647	>640	3	11	
	Particles >38μm		ASTM D7647	>160	1	0	
	Particles >71µm		ASTM D7647	>40	0	0	
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	20/15/11	19/16/13	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	4	
	Boron	ppm	ASTM D5185(m)		80	120	
The condition of the cilia cocentable for the time in coming	Barium	ppm	ASTM D5185(m)		0	0	
The condition of the oil is acceptable for the time in service.		ppm	ASTM D5185(m)		26	6	
The condition of the oil is acceptable for the time in service.	Molybdenum	PP					
The condition of the oil is acceptable for the time in service.	Molybdenum Manganese	ppm	ASTM D5185(m)		0	<1	
The condition of the oil is acceptable for the time in service.	•		ASTM D5185(m) ASTM D5185(m)		0 475	<1 299	
The condition of the oil is acceptable for the time in service.	Manganese Magnesium Calcium	ppm	ASTM D5185(m) ASTM D5185(m)				
The condition of the oil is acceptable for the time in service.	Manganese Magnesium	ppm	ASTM D5185(m)		475	299	
The condition of the oil is acceptable for the time in service.	Manganese Magnesium Calcium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		475 1405	299 1426	
The condition of the oil is acceptable for the time in service.	Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		475 1405 957	299 1426 960	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02617139

: VCP380074

Received **Tested** Unique Number : 5734249

: 22 Feb 2024 - Kevin Marson Diagnosed

: 21 Feb 2024

: 22 Feb 2024

Test Package : MOB 1 (Additional Tests: PrtCount) 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.

STRONGCO EQUIPMENT 54 IBER ROAD

OTTAWA, ON CA K2S 1E8 Contact: Andrew Mclean amclean@strongco.com T: (613)836-6633 F: (613)836-2614

Report Id: SHESTI [WCAMIS] 02617139 (Generated: 02/22/2024 12:40:41) Rev: 1

Contact/Location: Andrew Mclean - SHESTI