

WEAR CONTAMINATION FLUID CONDITION

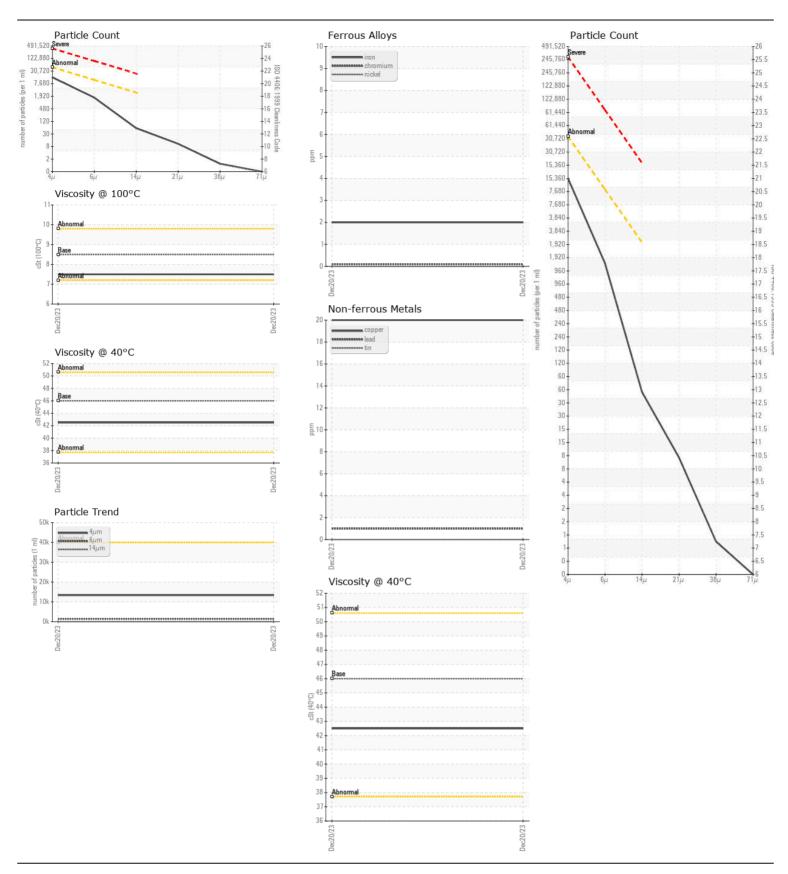
NORMAL NORMAL NORMAL



VOLVO ECR145E 316243

Component Hydraulic System

RECOMMENDATION							
	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUTI	VCP335173		
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Dec 2023		
	Machine Age	hrs	Client Info		951		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1110	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Oliciti IIIIO		NORMAL		
<u></u>					····		
WEAR	Iron	ppm	ASTM D5185(m)	>25	2		
WEAT	Chromium	ppm	ASTM D5185(m)		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)	7.0	0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>20	<1		
	Lead	ppm	ASTM D5185(m)	>20	1		
	Copper	ppm	ASTM D5185(III)		20		
	Tin	ppm	ASTM D5185(m)	>10	0		
	Vanadium	ppm	ASTM D5185(III)	/10	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal		Visual*	NONE	NONE		
	Tellow Metal	scalar	VISUAI	INOINE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>50	4		
CONTAMINATION	Potassium	ppm	ASTM D5185(m)		<1		
The system cleanliness is acceptable for your target ISO 4406	Water	ppiii	WC Method		NEG		
cleanliness code. The system and fluid cleanliness is acceptable.	Soot %	%	ASTM D7844*	-0.1	0		
	Nitration	Abs/cm	ASTM D7624*		1.9		
	Sulfation		ASTM D7024 ASTM D7415*		23.9		
	Particles >4µm	AUS/. 1111111	ASTM D7413	~ 40000	13387		
	Particles >6µm		ASTM D7647		1448		
	Particles >14μm		ASTM D7647		50		
	Particles >21μm		ASTM D7647		9		
	Particles >38µm		ASTM D7647		1		
			ASTM D7647	>160	0		
	Particles >71µm Oil Cleanliness			>22/20/18	-		
		analar	ISO 4406 (c)		21/18/13 NONE		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt		Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor		Visual*	NORML	NORML		
	Emulsified Water	Scalar	Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
T LOID CONDITION	Boron	ppm	ASTM D5185(III)	14	0		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(III) ASTM D5185(m)	0.0	0		
The condition of the oil is acceptable for the time in service.	Molybdenum		ASTM D5185(III)		0		
	Manganese	ppm	(/		0		
		ppm	ASTM D5185(m)	0.0	1		
	Magnesium	ppm	ASTM D5185(m)				
	Calcium	ppm	ASTM D5185(m)	49	93		
	Phosphorus	ppm	ASTM D5185(m)		396		
	Zinc	ppm	ASTM D5185(m)	419	513		
	Sulfur	ppm	ASTM D5185(m)	3/19	957		
	Oxidation	Abs/.1mm	ASTM D7414*	4.0	16.8		
	10 - 1015						
	Visc @ 40°C	cSt	ASTM D7279(m)		42.5		
	Visc @ 40°C Visc @ 100°C Viscosity Index (VI)	cSt	ASTM D7279(m)	8.5	42.5 7.5 143		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : VCP335173

: 02607538 : 5708624

Recieved

: 09 Jan 2024

Diagnosed : 11 Jan 2024 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: FT-IR, KV100, PrtCount, VI) 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.

CITY OF KELOWNA 1435 WATER STREET KELOWNA, BC

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