WEAR CONTAMINATION FLUID CONDITION

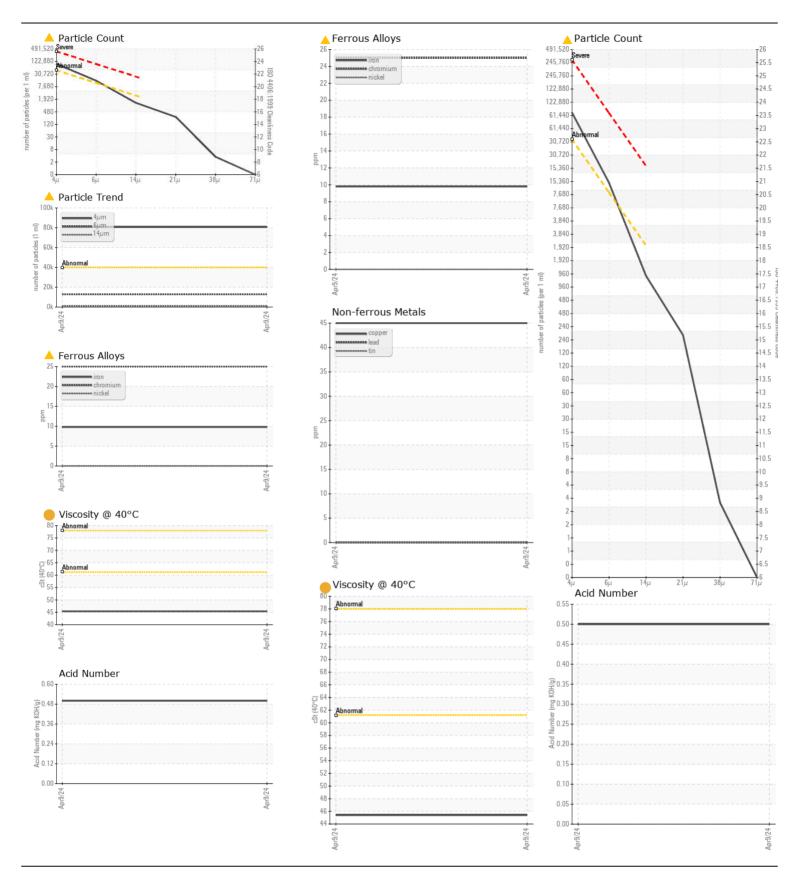
ABNORMAL ATTENTION

[12010]

VOLVO ECR145D 210173

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LITTION	VCP446412		
	Sample Date		Client Info		09 Apr 2024		
	Machine Age	hrs	Client Info		5873		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
NEAD	Iron	nnm	ASTM D5185m	\25	10		
WEAR	Chromium	ppm	ASTM D5185m		△ 25		
The chromium level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	3		
	Lead	ppm	ASTM D5185m	>20	0		
	Copper	ppm	ASTM D5185m		45		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	13		
30117AIIII17ATTON	Potassium	ppm	ASTM D5185m		0		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	PP	WC Method	>0.1	NEG		
	Particles >4μm		ASTM D7647		<u> </u>		
	Particles >6µm		ASTM D7647	>10000	12884		
	Particles >14µm		ASTM D7647	>2500	1132		
	Particles >21µm		ASTM D7647	>640	240		
	Particles >38µm		ASTM D7647	>160	3		
	Particles >71µm		ASTM D7647	>40	0		
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	<u> 24/21/17</u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		3		
	Calcium	ppm	ASTM D5185m		112		
	Phosphorus	ppm	ASTM D5185m		440		
	Zinc	ppm	ASTM D5185m		533		
	Sulfur	ppm	ASTM D5185m		1819		
	Acid Number (AN) Visc @ 40°C	mg KOH/g	ASTM D8045 ASTM D445		0.50 45.4		
		cSt				/	





Certificate L2367

Laboratory

Sample No. Lab Number : 06148594 Unique Number: 10978672

Test Package : MOB 2

: VCP446412

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 **Tested**

: 05 May 2024 : 05 May 2024 - Doug Bogart Diagnosed

HOFFMAN EQUIPMENT - LIONVILLE 120 GORDON DRIVE LIONVILLE, PA US 19341

Contact: JIM FEHR jim.fehr@hoffmanequip.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (610)363-9200 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (610)594-0829