WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL



VOLVO EC350 2130 (S/N 314011)

Left Final Drive

GEAR OIL SAE 80W140 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0006348		
Sample Date		Client Info		23 Jan 2024		
Machine Age	hrs	Client Info		3532		
Oil Age	hrs	Client Info		532		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Not Changd		
Sample Status				SEVERE		
Iron	ppm	ASTM D5185m	>500	2179		
Chromium	ppm	ASTM D5185m	>10	25		
Nickel	ppm	ASTM D5185m	>10	3		

WEAR

The iron level is severe. Gear wear is indicated. Moderate concentration of visible metal present.

CONTAMINATION

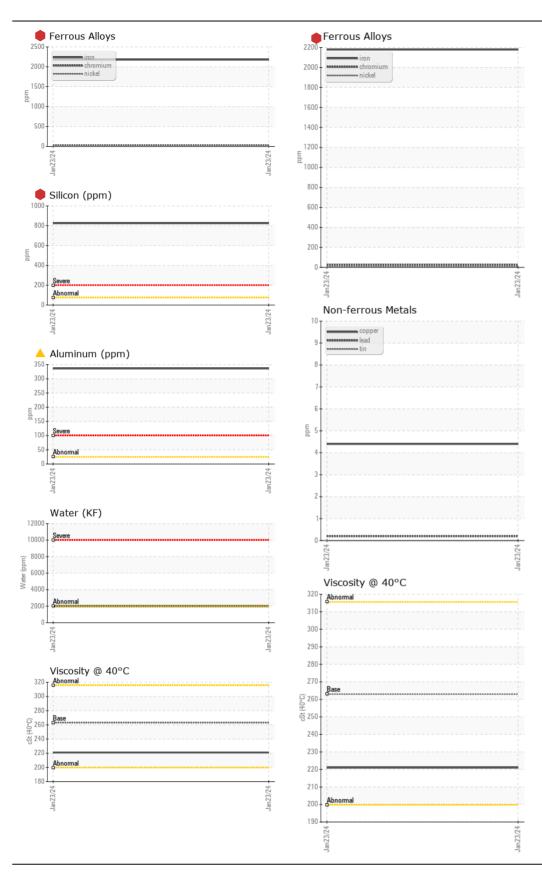
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The water content is negligible.

Silicon	ppm	ASTM D5185m	>75	825	
Potassium	ppm	ASTM D5185m	>20	15	
Water	%	ASTM D6304	>0.2	0.198	
ppm Water	ppm	ASTM D6304	>2000	1980	
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	>0.2	0.2%	
Cadium		ACTM DE10Em		04	
Sodium	ppm	ASTM D5185m		21	

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

	Emulsified Water	scalar	*Visual	>0.2	0.2%	
	0 "		AOTM DEGOS			
	Sodium	ppm	ASTM D5185m		21	
	Boron	ppm	ASTM D5185m	400	149	
	Barium	ppm	ASTM D5185m	200	<1	
	Molybdenum	ppm	ASTM D5185m	12	3	
	Manganese	ppm	ASTM D5185m		16	
	Magnesium	ppm	ASTM D5185m	12	18	
	Calcium	ppm	ASTM D5185m	150	70	
	Phosphorus	ppm	ASTM D5185m	1650	988	
	Zinc	ppm	ASTM D5185m	125	19	
	Sulfur	ppm	ASTM D5185m	22500	31808	
	Visc @ 40°C	cSt	ASTM D445	263	221	
Contact/Location: KAREN NEWPORT - GANRURNO						





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: ASC0006348 : 06076193

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 : 02 Feb 2024 Diagnosed

: 10858284 Diagnostician : Sean Felton Test Package : CONST (Additional Tests: KF)

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **G S MATERIALS INC**

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