

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



Machine Id VOLVO ECR145 311293

Right Final Drive

GEAR OIL SAE 85W140 (--- 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. Resample at the next service interval to monitor.

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Gear wear is indicated. All other component wear rates are normal.

CONTAMINATION

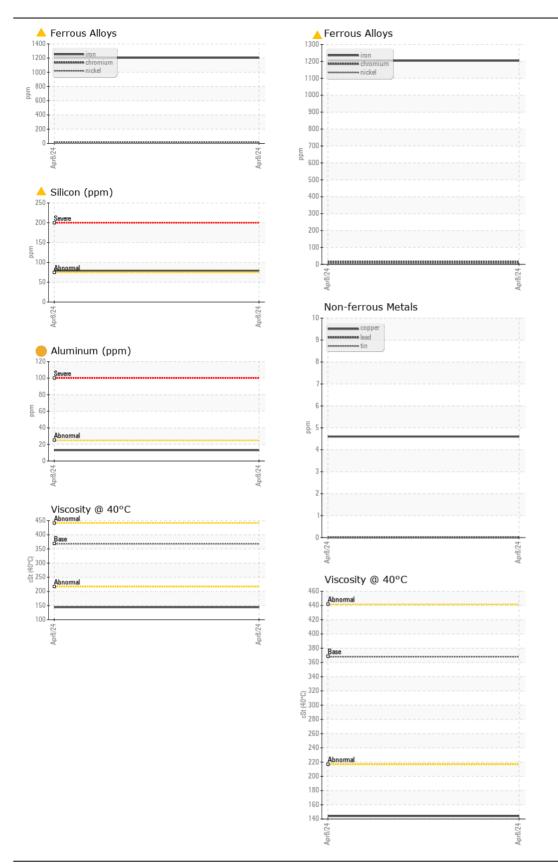
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

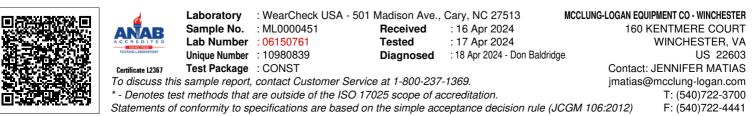
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The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0000451		
Sample Date		Client Info		08 Apr 2024		
Machine Age	hrs	Client Info		2913		
Oil Age	hrs	Client Info		500		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>500	▲ 1204		
Chromium	ppm	ASTM D5185m	>10	1 5		
Nickel	ppm	ASTM D5185m	>10	4		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m	<u></u>	<1		
Aluminum	ppm	ASTM D5185m	>25	1 3		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>50	5		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>75	4 79		
Potassium	ppm	ASTM D5185m	>20	4		
Water		WC Method	>0.2	NEG		
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	NEG		
		40TH DE105		40		
Sodium	ppm	ASTM D5185m	400	10		
Boron	ppm	ASTM D5185m	400	2		
Barium	ppm	ASTM D5185m	200	4		
Molybdenum	ppm	ASTM D5185m	12	<1		
Manganese	ppm	ASTM D5185m	10	13		
Magnesium	ppm	ASTM D5185m	12	5		
Calcium	ppm	ASTM D5185m	150	26		
Phosphorus	ppm	ASTM D5185m	1650	183		
Zinc	ppm	ASTM D5185m	125	42		
Sulfur	ppm	ASTM D5185m	22500	28993		
Visc @ 40°C	cSt	ASTM D445	368	144		

Contact/Location: JENNIFER MATIAS - VOLVO4589





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Page 2 of 2