

## **OIL ANALYSIS REPORT**

Sample Rating Trend



VOLVO EC140 314312 Component Left Final Drive Fluid GEAR OIL SAE 80W90 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

### 🔺 Wear

Area

Gear wear is indicated.

## Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

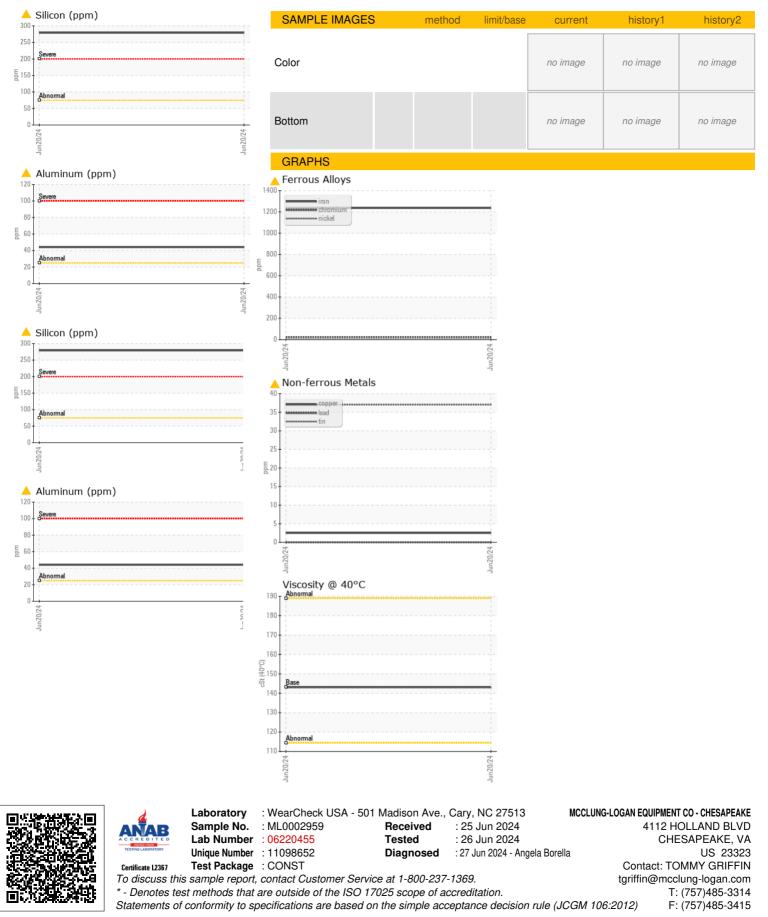
#### Fluid Condition

The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002959		
Sample Date		Client Info		20 Jun 2024		
Machine Age	hrs	Client Info		3121		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>1236</b>		
Chromium	ppm	ASTM D5185m	>10	<u> </u>		
Nickel	ppm	ASTM D5185m	>10	4		
Titanium	ppm	ASTM D5185m		6		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m	>10	<b>A</b> 37		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	6		
Barium	ppm	ASTM D5185m	200	3		
Molybdenum	ppm	ASTM D5185m	12	1		
Manganese	ppm	ASTM D5185m		20		
Magnesium	ppm	ASTM D5185m	12	2		
Calcium	ppm	ASTM D5185m	150	43		
Phosphorus	ppm	ASTM D5185m	1650	582		
Zinc	ppm	ASTM D5185m	125	63		
Sulfur	ppm	ASTM D5185m	22500	22045		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>A</b> 279		
Sodium	ppm	ASTM D5185m	>170	11		
Potassium	ppm	ASTM D5185m	>20	8		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Winte Weta						
Yellow Metal	scalar	*Visual	NONE	NONE		
	scalar scalar			NONE NONE		
Yellow Metal		*Visual	NONE			
Yellow Metal Precipitate	scalar	*Visual *Visual	NONE NONE	NONE		
Yellow Metal Precipitate Silt	scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE		
Yellow Metal Precipitate Silt Debris	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE		
Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE		
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NORML		  



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