

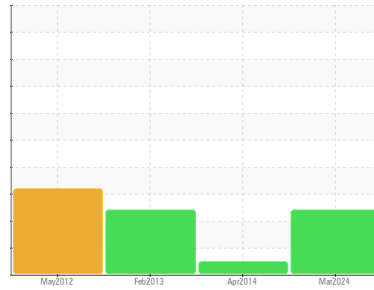


# OIL ANALYSIS REPORT



Area  
**AMR-Cheyenne**  
 Machine Id  
**17529 VOLVO EC460CL 110459**  
 Component  
**Rear Right Final Drive**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

### 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.

### Wear

All component wear rates are normal.

### 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>DJJ026995</b>	DJJ010208	VC448607
Sample Date	Client Info		<b>14 Mar 2024</b>	09 Apr 2014	06 Feb 2013
Machine Age	hrs	Client Info	<b>8269</b>	4088	2354
Oil Age	hrs	Client Info	<b>0</b>	2176	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Chngd
Sample Status			<b>ABNORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>427</b>	211	375
Chromium	ppm	ASTM D5185m >10	<b>3</b>	3	5
Nickel	ppm	ASTM D5185m >10	<b>2</b>	<1	2
Titanium	ppm	ASTM D5185m	<b>1</b>	<1	1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>14</b>	8	18
Lead	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	3
Copper	ppm	ASTM D5185m >50	<b>41</b>	20	48
Tin	ppm	ASTM D5185m >10	<b>2</b>	0	3
Antimony	ppm	ASTM D5185m >5	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 379	<b>116</b>	110	63
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	0	4
Molybdenum	ppm	ASTM D5185m 0.8	<b>2</b>	0	0
Manganese	ppm	ASTM D5185m 0.0	<b>3</b>	3	6
Magnesium	ppm	ASTM D5185m 31	<b>13</b>	<1	8
Calcium	ppm	ASTM D5185m 38	<b>111</b>	63	119
Phosphorus	ppm	ASTM D5185m 1077	<b>2039</b>	2215	1869
Zinc	ppm	ASTM D5185m 46	<b>80</b>	18	52
Sulfur	ppm	ASTM D5185m 23526	<b>21801</b>	7496	17948

## CONTAMINANTS

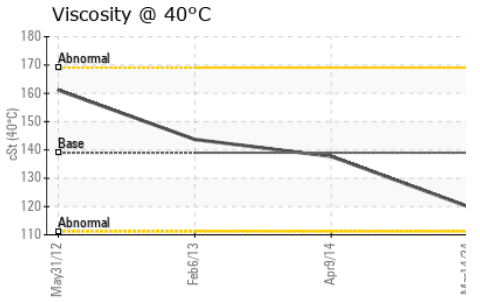
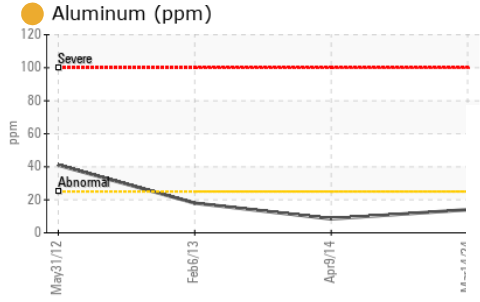
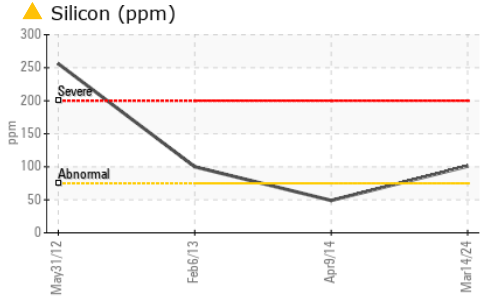
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 101</b>	49	▲ 100
Sodium	ppm	ASTM D5185m	<b>3</b>	5	14
Potassium	ppm	ASTM D5185m >20	<b>7</b>	5	10

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>MODER</b>	LIGHT	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

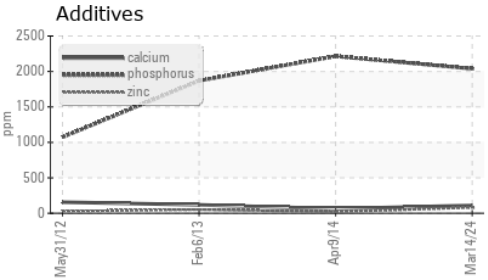
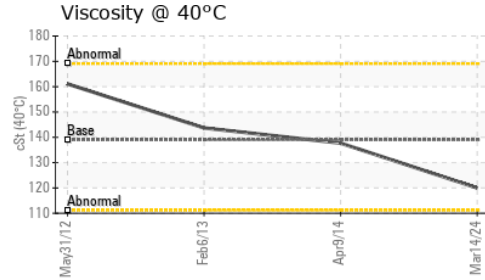
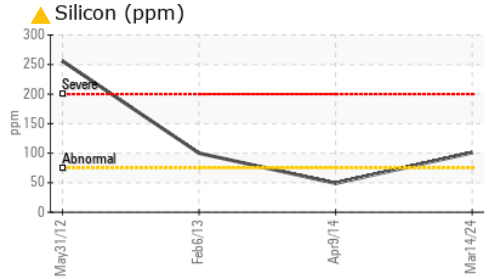
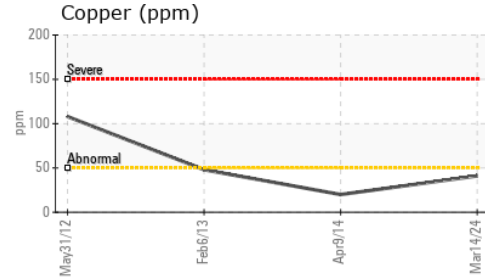
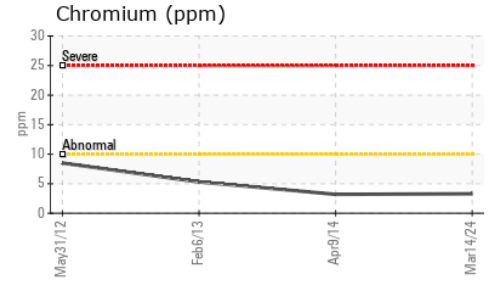
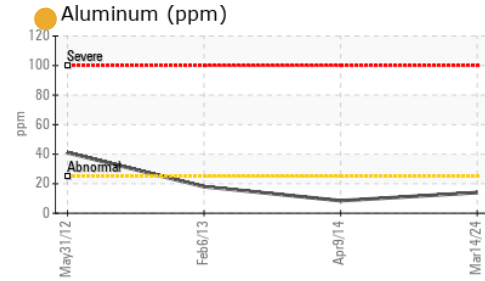
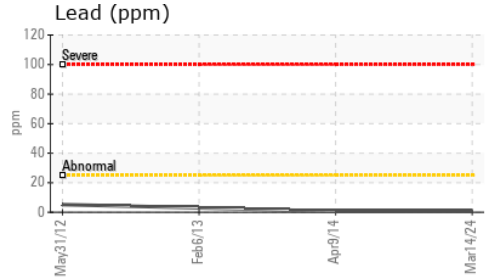
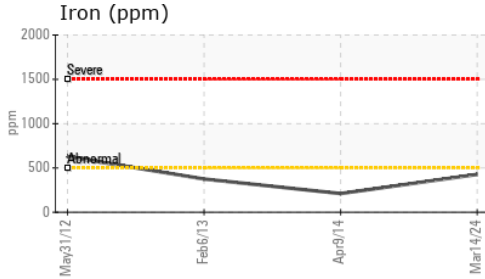


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	139	120	137.7	143.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ026995  
**Lab Number** : 06145452  
**Unique Number** : 10970260  
**Test Package** : MOB 1

**Received** : 10 Apr 2024  
**Tested** : 11 Apr 2024  
**Diagnosed** : 14 Apr 2024 - Don Baldrige

**ADVANTAGE METALS RECYCLING - CHEYENNE**  
 1015 S. PACKARD ST  
 KANSAS CITY, KS  
 US 66105  
 Contact: BRIAN JACOBS  
 BRIAN.JACOBS@ADVANTAGERECYCLING.COM  
 T: (816)808-4711  
 F:

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)