

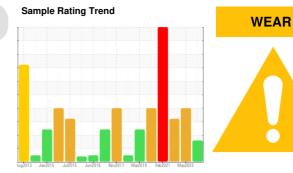
PROBLEM SUMMARY



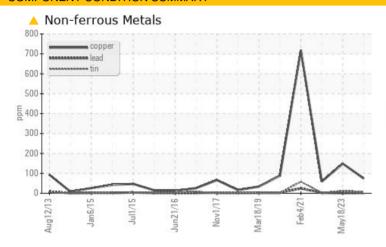
AMR-Cheyenne WOLVO EC460CL 110459

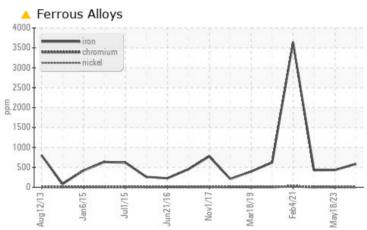
Left Final Drive

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (2 GAL)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS					
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>500	<u> </u>	433	429	
Copper	ppm	ASTM D5185m	>50	4 74	<u> </u>	△ 59	

Customer Id: ADVKANKS **Sample No.:** DJJ0005353 Lab Number: 05982135 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

18 May 2023 Diag: Sean Felton

DIRT



We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



01 Dec 2022 Diag: Sean Felton

04 Feb 2021 Diag: Jonathan Hester

DIKT



We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR





We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high amount of visible silt present in the sample. There is a high

concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.





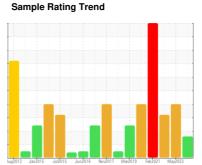
OIL ANALYSIS REPORT



AMR-Cheyenne VOLVO EC460CL 110459

Left Final Drive

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (2 GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the

Fluid Condition

The condition of the oil is acceptable for the time in

Wg2013 Jm2015 Ju2015 Jun2016 Nov2017 Mm2019 Feb2021 Mm2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DJJ0005353	DJJ0019216	DJJ0002738
Sample Date		Client Info		06 Oct 2023	18 May 2023	01 Dec 2022
Machine Age	hrs	Client Info		14810	14362	13861
Oil Age	hrs	Client Info		0	0	1000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	△ 587	433	429
Chromium	ppm	ASTM D5185m	>10	4	2	3
Nickel	ppm	ASTM D5185m	>10	2	2	<1
Titanium	ppm	ASTM D5185m		<1	2	2
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	1 9	△ 32
Lead	ppm	ASTM D5185m	>25	2	<1	3
Copper	ppm	ASTM D5185m	>50	_ 74	<u> 149</u>	<u>△</u> 59
Tin	ppm	ASTM D5185m	>10	7	<u> </u>	2
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m	-	<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	379	38	88	90
Barium	ppm	ASTM D5185m	0.0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0.8	0	<1	<1
Manganese	ppm	ASTM D5185m	0.0	4	3	4
Magnesium	ppm	ASTM D5185m	31	2	7	11
Calcium	ppm	ASTM D5185m	38	56	96	142
Phosphorus	ppm	ASTM D5185m	1077	2377	1722	954
Zinc	ppm	ASTM D5185m	46	24	43	57
Sulfur	ppm	ASTM D5185m	23526	27384	18668	19556
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	35	△ 93	<u> </u>
Sodium	ppm	ASTM D5185m		7	7	10
Potassium	ppm	ASTM D5185m	>20	6	8	10
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number** Test Package : MOBCE

: DJJ0005353 : 05982135 : 10699430

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Oct 2023 Diagnosed : 19 Oct 2023 Diagnostician : Don Baldridge

ADVANTAGE METALS RECYCLING - CHEYENNE 1015 S. PACKARD ST

KANSAS CITY, KS US 66105

Contact: BRIAN JACOBS

BRIAN.JACOBS@ADVANTAGERECYCLING.COM T: (816)808-4711

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)

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