



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
AMR-Cheyenne
Machine Id
17529 VOLVO EC460CL 110459
Component
Hydraulic System
Fluid
CHEVRON HYDRAULIC OIL AW ISO 46 (139 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0024030	DJJ028501	DJJ0012256
Sample Date		Client Info		15 Apr 2024	14 Mar 2024	06 Oct 2023
Machine Age	hrs	Client Info		15413	8269	14810
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	<1	1	2
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	2	2
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

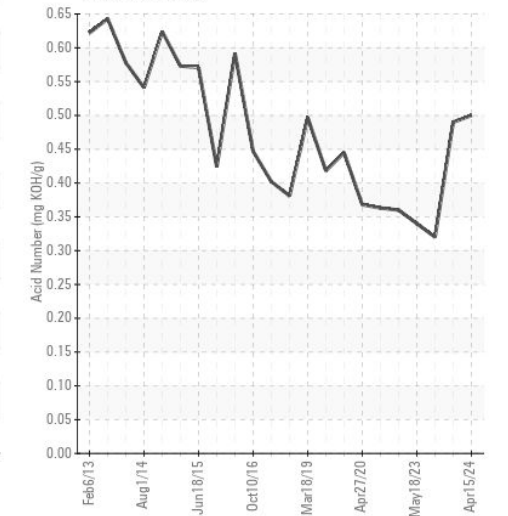
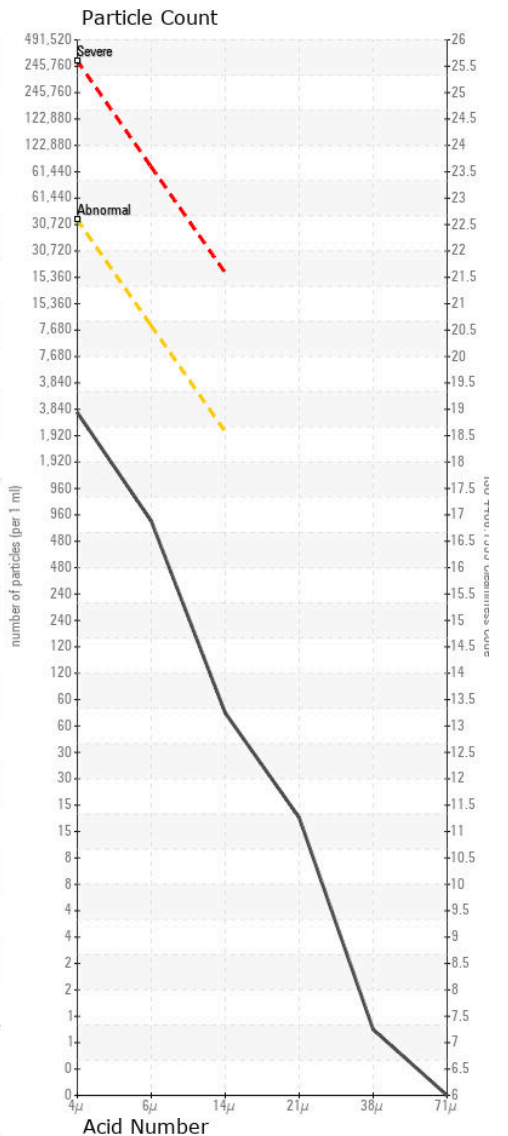
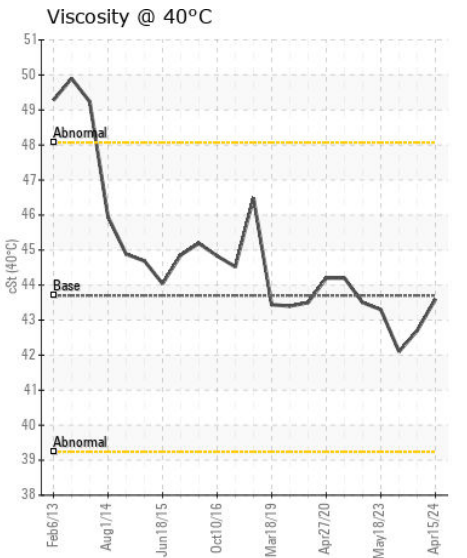
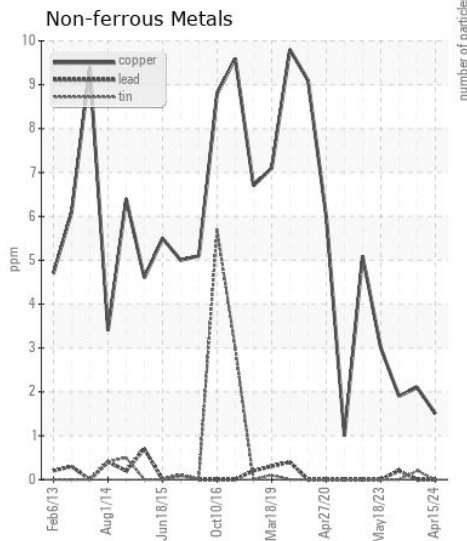
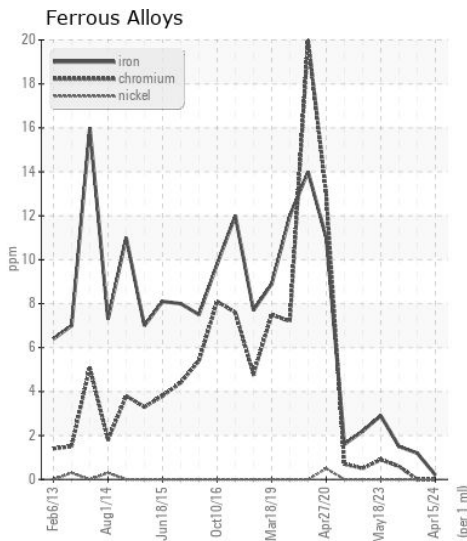
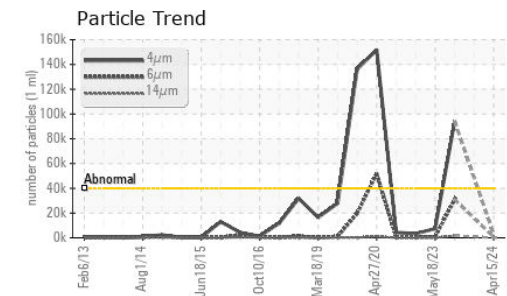
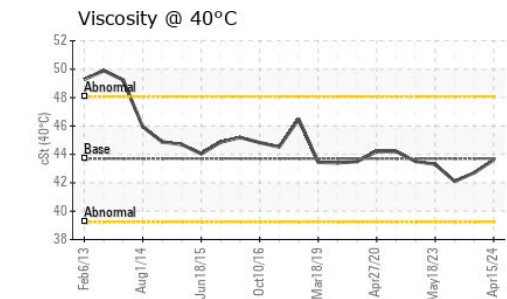
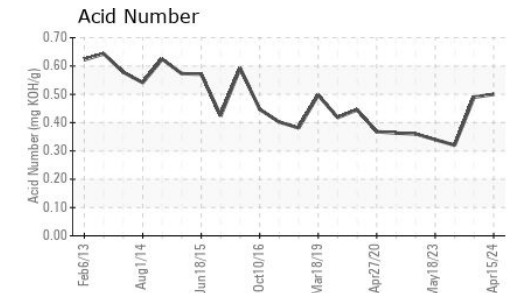
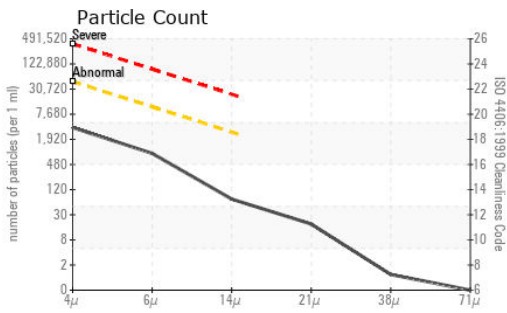
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	<1	0	<1
Potassium	ppm	ASTM D5185m	>20	10	1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	3214	---	▲ 94015
Particles >6µm		ASTM D7647	>10000	776	---	▲ 30917
Particles >14µm		ASTM D7647	>2500	63	---	1678
Particles >21µm		ASTM D7647	>640	16	---	379
Particles >38µm		ASTM D7647	>160	1	---	8
Particles >71µm		ASTM D7647	>40	0	---	1
Oil Cleanliness		ISO 4406 (c)	>22/20/18	19/17/13	---	▲ 24/22/18
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		2	3	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		24	36	1
Calcium	ppm	ASTM D5185m		100	110	126
Phosphorus	ppm	ASTM D5185m		296	339	361
Zinc	ppm	ASTM D5185m		356	398	454
Sulfur	ppm	ASTM D5185m		906	974	1013
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.49	0.32
Visc @ 40°C	cSt	ASTM D445	43.7	43.6	42.7	42.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0024030
Lab Number : 06151918
Unique Number : 10981996
Test Package : CONST

Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 19 Apr 2024 - Doug Bogart

ADVANTAGE METALS RECYCLING - CHEYENNE
 1015 S. PACKARD ST
 KANSAS CITY, KS
 US 66105

Contact: BRIAN JACOBS
 BRIAN.JACOBS@ADVANTAGERECYCLING.COM

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)

T: (816)808-4711

F: