CONST

CHALMERS
Lubrication Service
(704) 660-LUBE(5823)

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO EC300 3026 (S/N 313030)
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

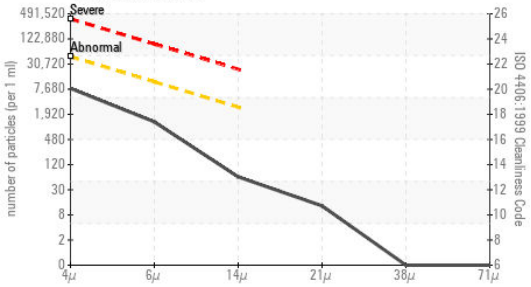
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

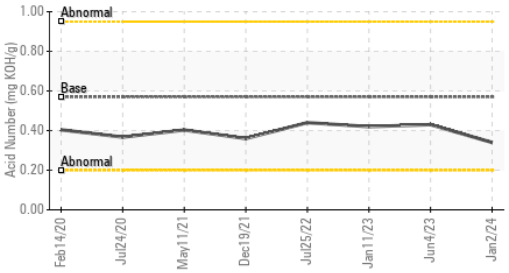
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**CL0005053**	CL0004365	CL0003893
Sample Date		Client Info		**02 Jan 2024**	04 Jun 2023	11 Jan 2023
Machine Age	hrs	Client Info		**4470**	4155	2890
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>25	**6**	6	8
Chromium	ppm	ASTM D5185m	>10	**1**	1	1
Nickel	ppm	ASTM D5185m	>10	**0**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	0	<1
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>150	**40**	36	35
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	**4**	4	5
Potassium	ppm	ASTM D5185m	>20	**1**	<1	0
Water		WC Method	>0.1	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>40000	**6992**	10909	8528
Particles >6µm		ASTM D7647	>10000	**1113**	2372	2201
Particles >14µm		ASTM D7647	>2500	**54**	104	126
Particles >21µm		ASTM D7647	>640	**11**	20	21
Particles >38µm		ASTM D7647	>160	**0**	1	1
Particles >71µm		ASTM D7647	>40	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	**20/17/13**	21/18/14	20/18/14
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	>0.1	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**0**	0	<1
Boron	ppm	ASTM D5185m	5	**0**	0	<1
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	25	**4**	4	4
Calcium	ppm	ASTM D5185m	200	**61**	72	85
Phosphorus	ppm	ASTM D5185m	300	**359**	314	335
Zinc	ppm	ASTM D5185m	370	**382**	406	378
Sulfur	ppm	ASTM D5185m	2500	**947**	964	674
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.34**	0.43	0.42
Visc @ 40°C	cSt	ASTM D445	46	**41.9**	45.8	41.7

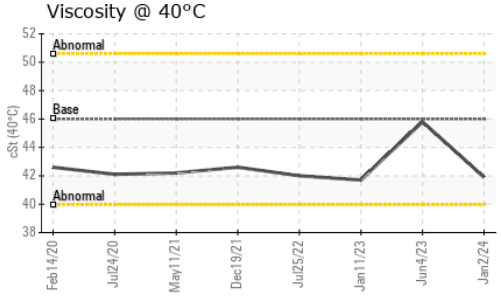
Particle Count



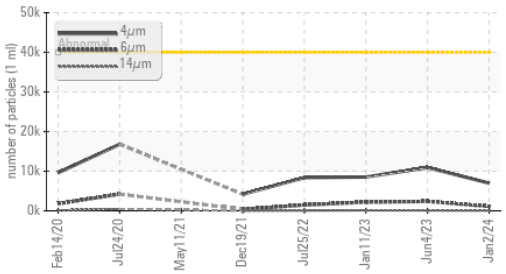
Acid Number



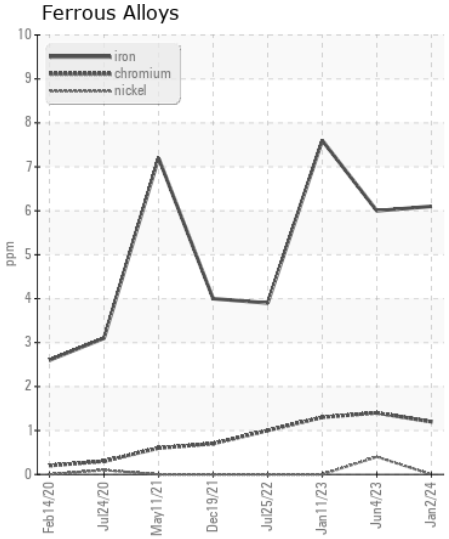
Viscosity @ 40°C



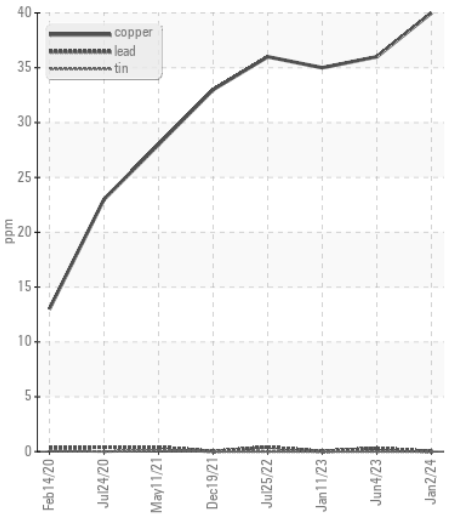
Particle Trend



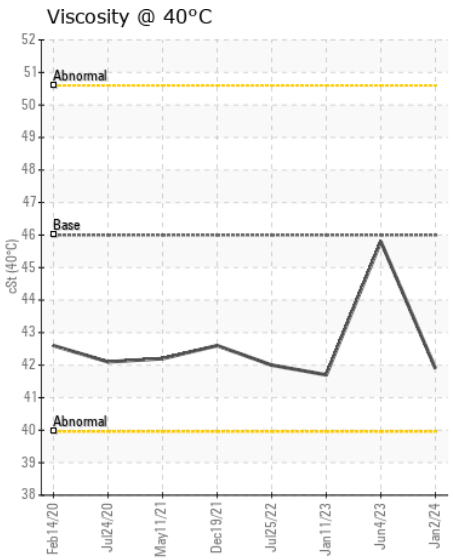
Ferrous Alloys



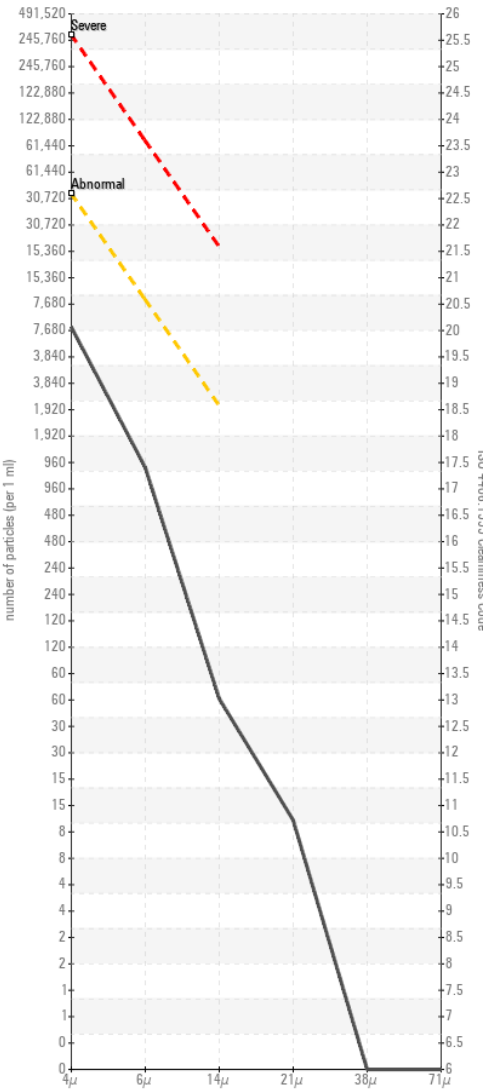
Non-ferrous Metals



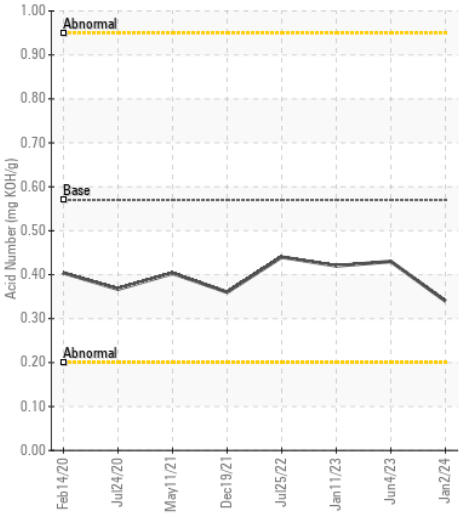
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005053
Lab Number : 06057332
Unique Number : 10823281
Test Package : CONST

Recieved : 10 Jan 2024
Diagnosed : 11 Jan 2024
Diagnostician : Wes Davis

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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Report Id: PURCHA [WUSCAR] 06057332 (Generated: 01/11/2024 15:11:02) Rev: 1

Submitted By: JEFF CHALMERS