



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A25F 13541
Component
Hydraulic System
Fluid
CONOCO PHILLIPS GUARDOL ECT 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP383990	VCP292976	VCP229915
Sample Date		Client Info		02 May 2023	17 Sep 2020	12 Jul 2018
Machine Age	hrs	Client Info		7844	5917	4007
Oil Age	hrs	Client Info		4000	2000	4000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	5	7	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		2	3	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	0	2
Lead	ppm	ASTM D5185m	>20	2	4	4
Copper	ppm	ASTM D5185m	>150	4	4	4
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

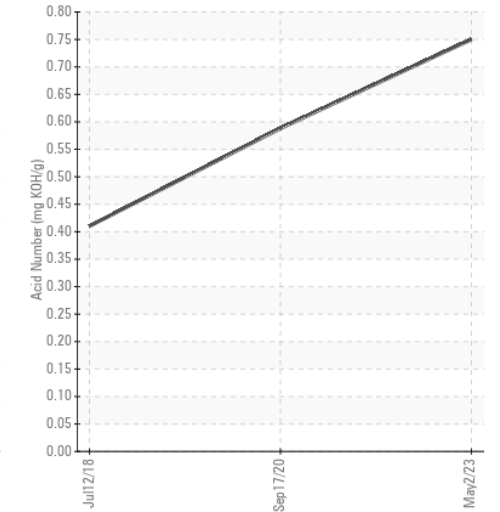
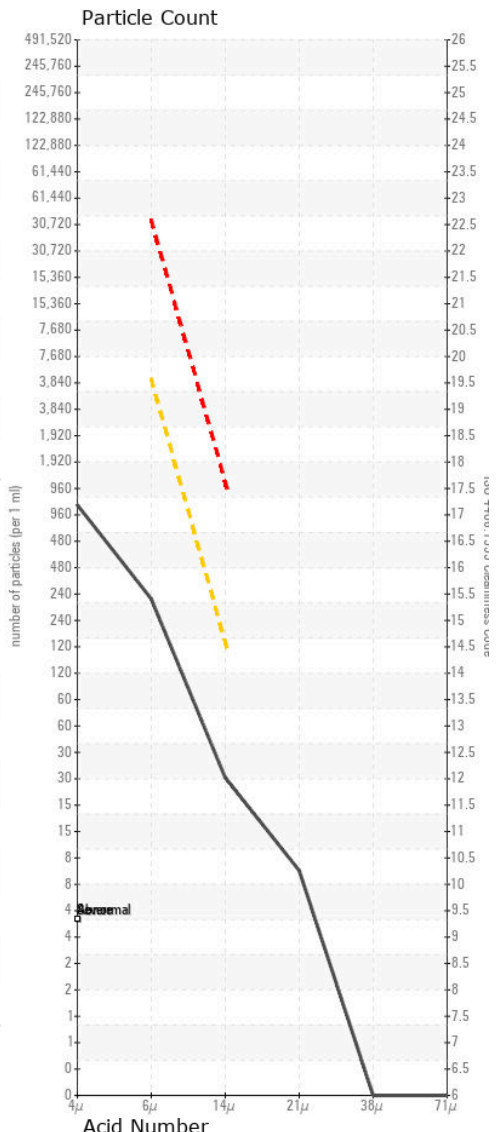
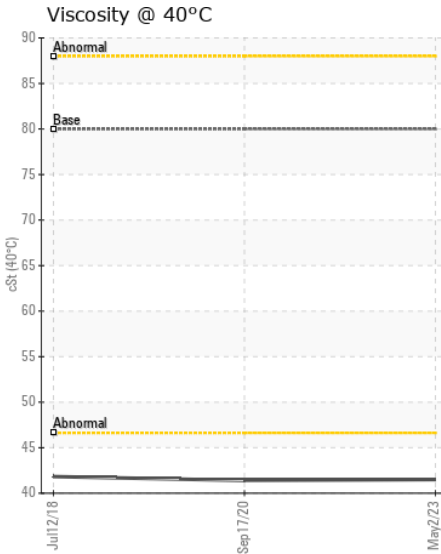
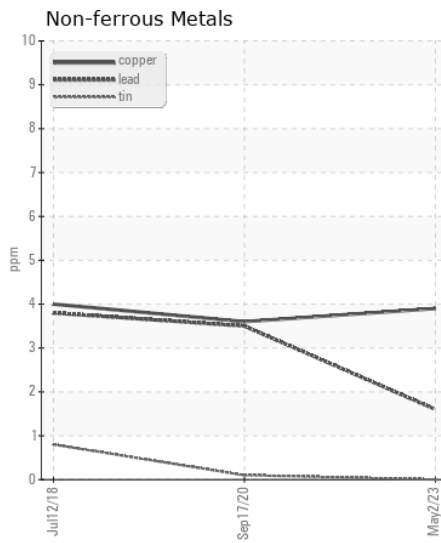
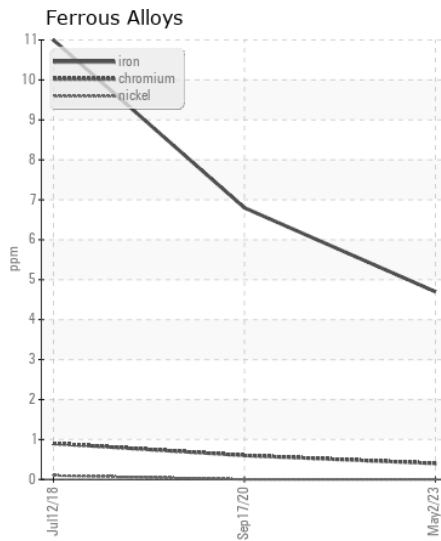
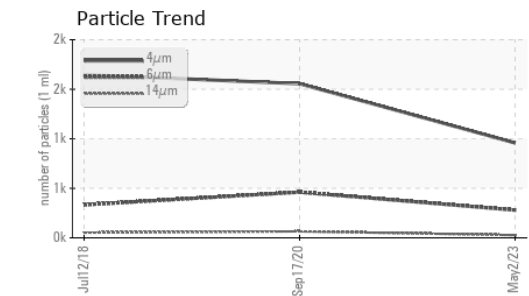
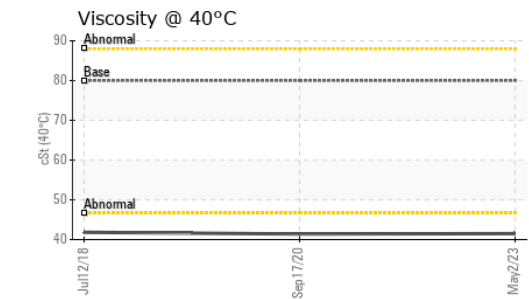
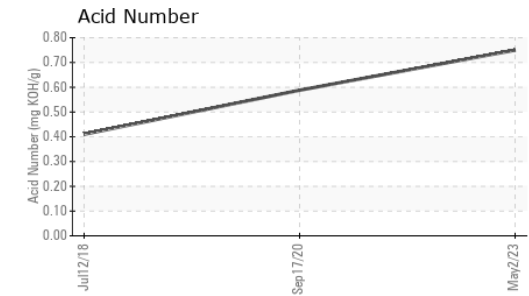
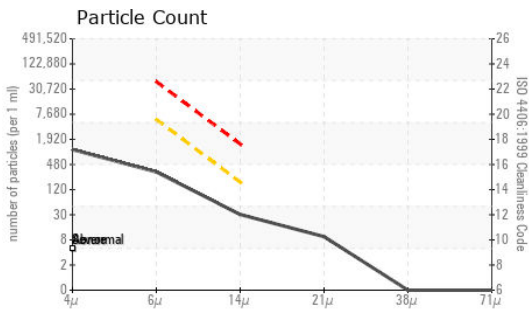
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	14	11	8
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		958	1556	1647
Particles >6µm		ASTM D7647	>5000	280	461	333
Particles >14µm		ASTM D7647	>160	27	65	52
Particles >21µm		ASTM D7647	>40	8	18	16
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	17/15/12	18/16/13	18/16/13
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		7	3	1
Boron	ppm	ASTM D5185m		76	72	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		27	19	2
Calcium	ppm	ASTM D5185m		2543	1805	105
Phosphorus	ppm	ASTM D5185m	1100	890	715	342
Zinc	ppm	ASTM D5185m	1220	1143	897	449
Sulfur	ppm	ASTM D5185m		4445	3649	2341
Acid Number (AN)	mg KOH/g	ASTM D8045		0.75	0.588	0.410
Visc @ 40°C	cSt	ASTM D445	80.0	41.5	41.4	41.83



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP383990 **Received** : 08 May 2023
Lab Number : 05840571 **Diagnosed** : 11 May 2023
Unique Number : 10459374 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

WELLONS CONSTRUCTION
 510 N POWELL AVE
 DUNN, NC
 US 28334
 Contact: GREG WRENCH

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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