



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO SD115B 236396**  
Component  
**Diesel Engine**  
Fluid  
**PHILLIPS 66 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0002327</b>	VCP376989	VCP340088
Sample Date		Client Info		<b>02 Jul 2024</b>	15 Mar 2023	31 May 2022
Machine Age	hrs	Client Info		<b>2925</b>	2443	1954
Oil Age	hrs	Client Info		<b>482</b>	500	500
Filter Age	hrs	Client Info		<b>482</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>48</b>	32	42
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>81</b>	82	68
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>9</b>	7	11
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>15	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

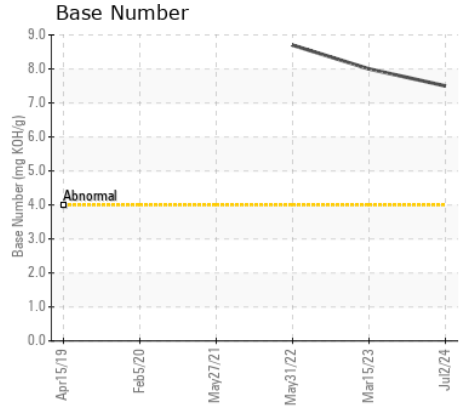
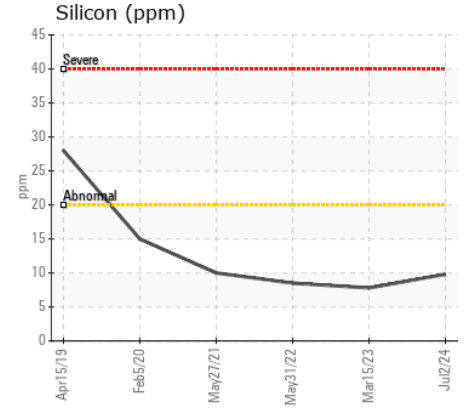
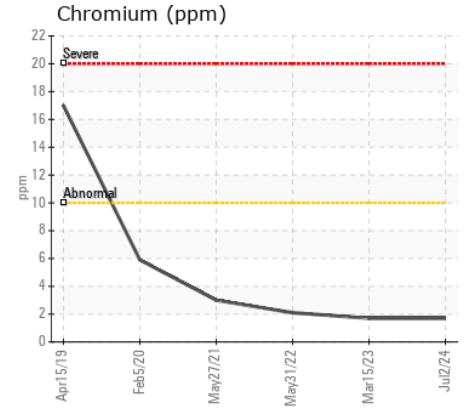
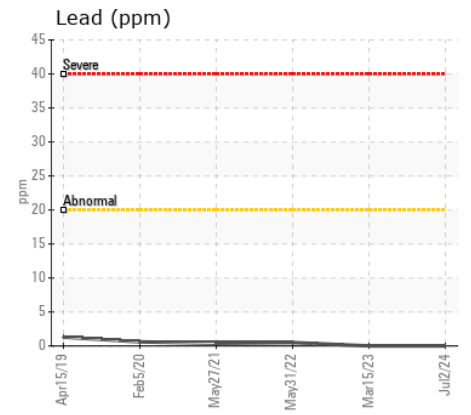
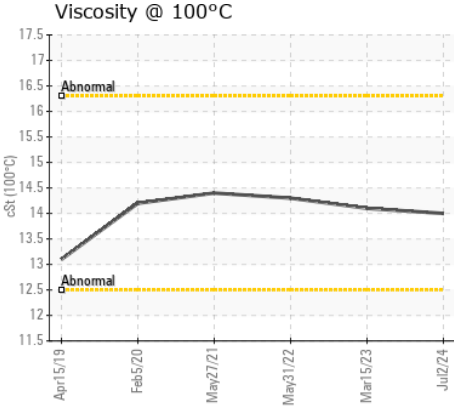
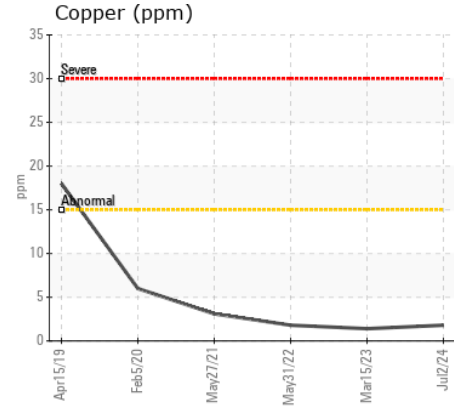
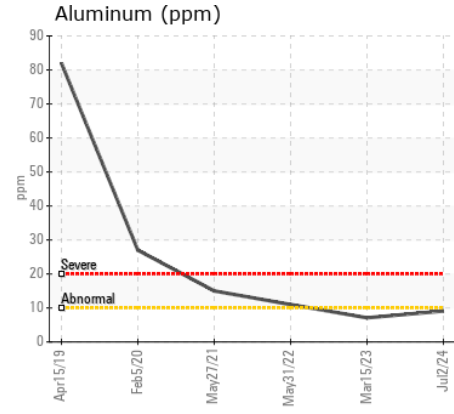
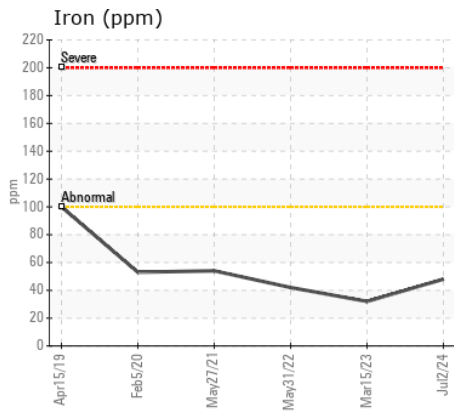
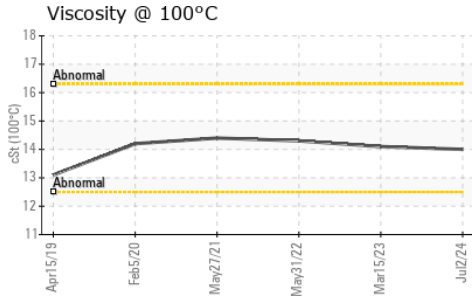
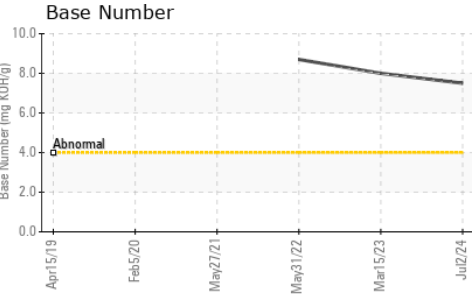
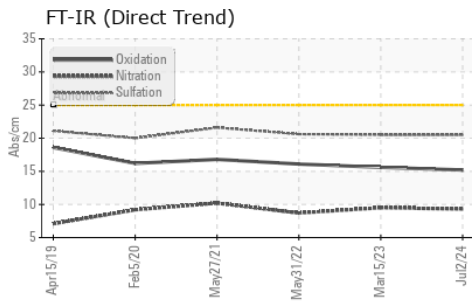
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	5	5
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.3</b>	9.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.5</b>	20.5	20.6
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	2
Boron	ppm	ASTM D5185m		<b>101</b>	109	105
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>9</b>	10	18
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>420</b>	397	450
Calcium	ppm	ASTM D5185m		<b>1787</b>	1775	1857
Phosphorus	ppm	ASTM D5185m		<b>1048</b>	1018	1029
Zinc	ppm	ASTM D5185m		<b>1227</b>	1208	1289
Sulfur	ppm	ASTM D5185m		<b>4458</b>	3644	4535
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	15.6	16.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.5</b>	8.0	8.7
Visc @ 100°C	cSt	ASTM D445		<b>14.0</b>	14.1	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0002327  
**Lab Number** : 06239685  
**Unique Number** : 11128519  
**Test Package** : MOBCE ( Additional Tests: TBN )

**Received** : 17 Jul 2024  
**Tested** : 18 Jul 2024  
**Diagnosed** : 18 Jul 2024 - Wes Davis

**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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