



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Ascendum Machinery/Livesville, NC

Machine Id
VOLVO L70H L70HV624391

Component
Front Axle

Fluid
VOLVO SUPER WET BRAKE TRANSAXLE OIL WB102 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009507	ASC0007370	ASC0000750
Sample Date		Client Info		06 Jun 2024	29 Mar 2024	26 Sep 2023
Machine Age	hrs	Client Info		8740	8192	6543
Oil Age	hrs	Client Info		548	6504	684
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	208	49	39
Chromium	ppm	ASTM D5185m	>20	3	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	10	<1	4
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>120	<1	0	<1
Tin	ppm	ASTM D5185m	>20	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

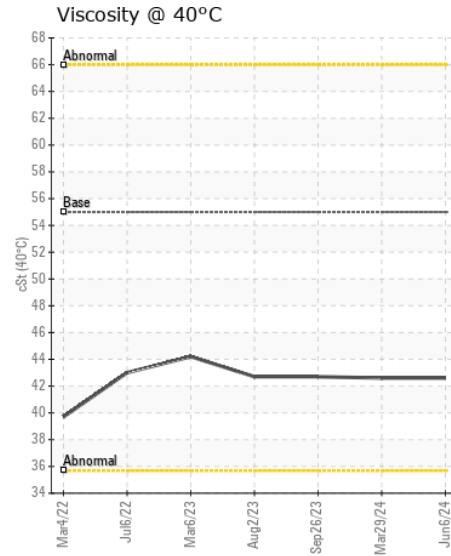
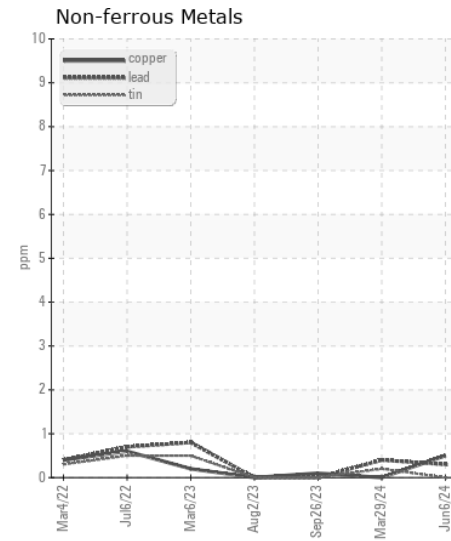
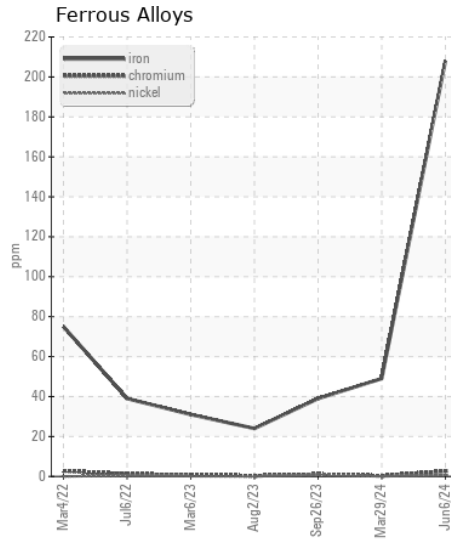
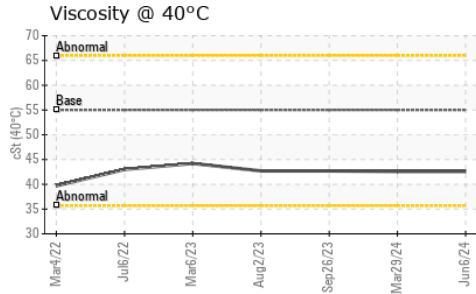
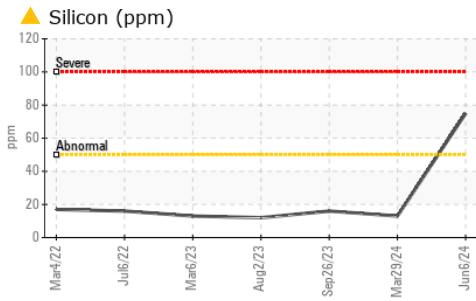
Elemental level of silicon (Si) above normal. There is a high amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>50	▲ 75	13	16
Potassium	ppm	ASTM D5185m	>20	3	0	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	▲ HEAVY	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

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	1	0
Boron	ppm	ASTM D5185m		149	127	140
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	0	<1
Manganese	ppm	ASTM D5185m		4	2	2
Magnesium	ppm	ASTM D5185m		19	19	17
Calcium	ppm	ASTM D5185m		4132	4238	4081
Phosphorus	ppm	ASTM D5185m		1308	1330	1289
Zinc	ppm	ASTM D5185m		1574	1629	1646
Sulfur	ppm	ASTM D5185m		5169	4474	4452
Visc @ 40°C	cSt	ASTM D445	55	42.6	42.6	42.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0009507
Lab Number : 06210546
Unique Number : 11083410
Test Package : CONST

Received : 14 Jun 2024
Tested : 17 Jun 2024
Diagnosed : 17 Jun 2024 - Angela Borella

OLDCASTLE MATERIALS
 900 ASHWOOD PARKWAY SUITE 600
 ATLANTA, GA
 US 30338

Contact: BRIAN MELLO
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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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