WEAR CONTAMINATION FLUID CONDITION

NORMAL
ATTENTION
NORMAL

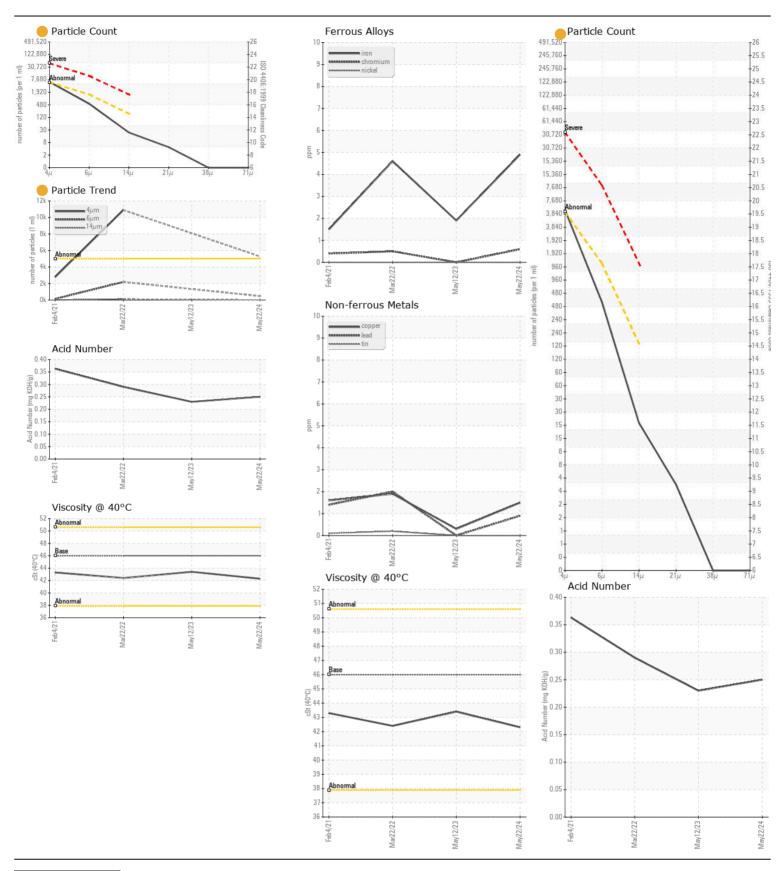
[S

[STRATEGIC MATERIAL] VOLVO L90H 625283

Component
Hydraulic System

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

VOLVO SUPEN HTDNAULIC VIL 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOMINENDATION	Sample Number		Client Info		ASC0011341	-	VCP340902
The filter change at the time of sampling has been noted. Resample at	Sample Date		Client Info		22 May 2024	12 May 2023	22 Mar 2022
the next service interval to monitor.	Machine Age	hrs	Client Info		3976	2438	1495
	Oil Age	hrs	Client Info		3976	0	0
	Filter Age	hrs	Client Info		1976	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		5	2	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		0	0	<1
	Lead	ppm	ASTM D5185m		<1	0	2
	Copper	ppm	ASTM D5185m		2	<1	2
	Tin	ppm	ASTM D5185m	>20	0	0	<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	Silicon	ppm	ASTM D5185m	>20	3	<1	4
CONTAININATION	Potassium	ppm	ASTM D5185m		1	0	<1
There is a light amount of silt (particulates < 14 microns in size)	Water	ррпп	WC Method	>0.2	NEG	NEG	NEG
present in the oil.	Particles >4µm		ASTM D7647		5275		▲ 10894
	Particles >6µm		ASTM D7647		471		2187
	Particles >14µm		ASTM D7647		20		116
	Particles >21µm		ASTM D7647		4		24
	Particles >38μm		ASTM D7647		0		1
	Particles >71μm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/16/11		<u>^</u> 21/18/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	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
ELUID CONDITION			40TH DE (05		_		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	4.4	4	0	0
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		0	0	<1
suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0	0	<1 0
	Manganese Magnesium	ppm	ASTM D5185m		0 <1	0	1
	Calcium	ppm	ASTM D5185m		64	63	86
	Phosphorus	ppm	ASTM D5185m		359	308	342
	Zinc	ppm	ASTM D5185m		453	410	458
	Sulfur	ppm	ASTM D5185m		2004	1735	1891
	Acid Number (AN)	mg KOH/g	ASTM D3103111	37 13	0.25	0.23	0.29
	Visc @ 40°C	cSt	ASTM D0045	46	42.3	43.4	42.4
	1130 W 40 U	001	TOTAL D440	70	72.3	70.4	74.7





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ASC0011341 : 06189123 Unique Number : 11045875

Received **Tested** Diagnosed

: 23 May 2024 : 24 May 2024 : 24 May 2024 - Wes Davis

113 - ASCENDUM MACHINERY INC - GARNER 3561 JONES SAUSAGE ROAD

GARNER, NC US 27529

Test Package : CONST Contact: TRENT BROADWELL To discuss this sample report, contact Customer Service at 1-800-237-1369. trent.broadwell@ascendummachinery.com

* - 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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