

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

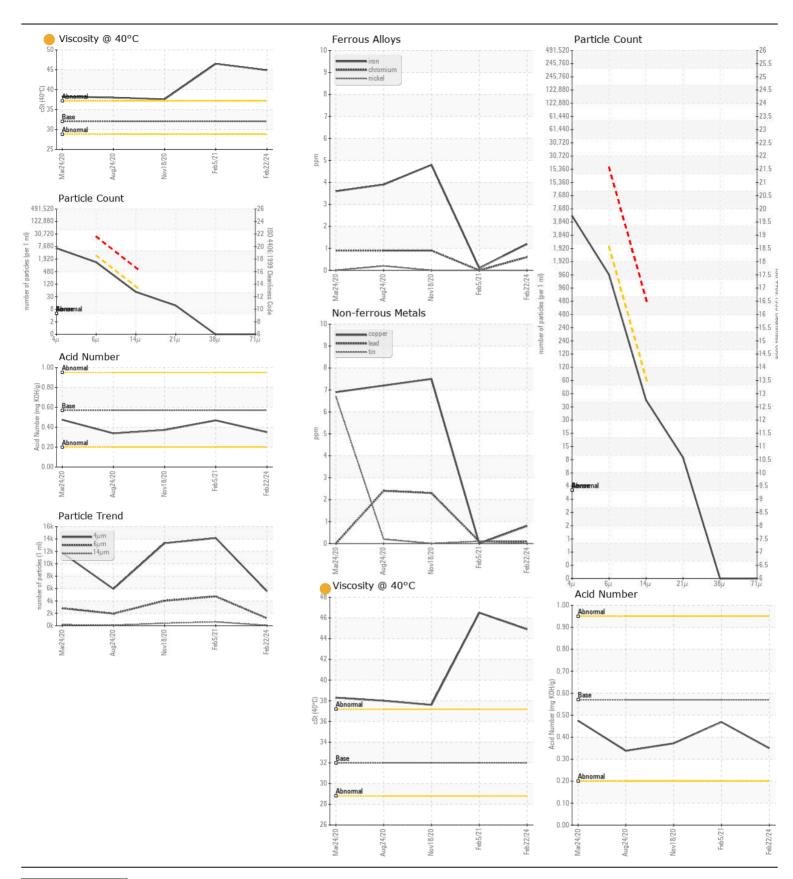


Area [SWO-069917 APAC AL]

VOLVO L150H 5908

Component Hydraulic System

AW HYDRAULIC OIL ISO 32 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP416172	VCP297127	VCP290608
	Sample Date		Client Info		22 Feb 2024	05 Feb 2021	18 Nov 2020
	Machine Age	hrs	Client Info		7119	4059	3253
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	1	<1	5
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
	Lead	ppm	ASTM D5185m	>20	<1	<1	2
	Copper	ppm	ASTM D5185m	>150	<1	0	8
	Tin	ppm	ASTM D5185m	>20	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		1	<1	0
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	0	<1
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		5579	14146	13308
	Particles >6µm		ASTM D7647		1194	4724	4026
	Particles >14μm		ASTM D7647		45	<u>^</u> 614	<u>\$\lambda\$</u> 394
	Particles >21µm		ASTM D7647		10	<u> 165</u>	<u>109</u>
	Particles >38µm		ASTM D7647		0	4	2
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		20/17/13	<u>21/19/16</u>	<u>21/19/16</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Sand/Dirt	scalar	*Visual	NONE	MODER NONE	NONE NONE	NONE
		scalar	*Visual *Visual	NONE	NORML	NORML	NORML
	Appearance Odor	scalar scalar	*Visual	NORML NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
	Littuisilled vvater	Scalai	Visuai		NEG	NEG	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	1
	Boron	ppm	ASTM D5185m	5	0	7	2
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	5	<1	2	<1
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m	25	16	15	2
	Calcium	ppm	ASTM D5185m	200	67	89	54
	Phosphorus	ppm	ASTM D5185m	300	305	329	339
	Zinc	ppm	ASTM D5185m	370	421	421	431
	Sulfur	ppm	ASTM D5185m	2500	1310	1809	3744
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.35	0.469	0.372
	Visc @ 40°C	cSt	ASTM D445	32	44.9	46.5	37.6





Certificate L2367

Laboratory Sample No.

: VCP416172 Lab Number : 06101555 Unique Number: 10899785

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 27 Feb 2024 Received **Tested** : 28 Feb 2024

: 29 Feb 2024 - Jonathan Hester Diagnosed

COWIN EQUIPMENT COMPANY 2238 PINSON VALLEY PARKWAY

BIRMINGHAM, AL US 35217

Contact: BRANTLY CLAY

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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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