WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

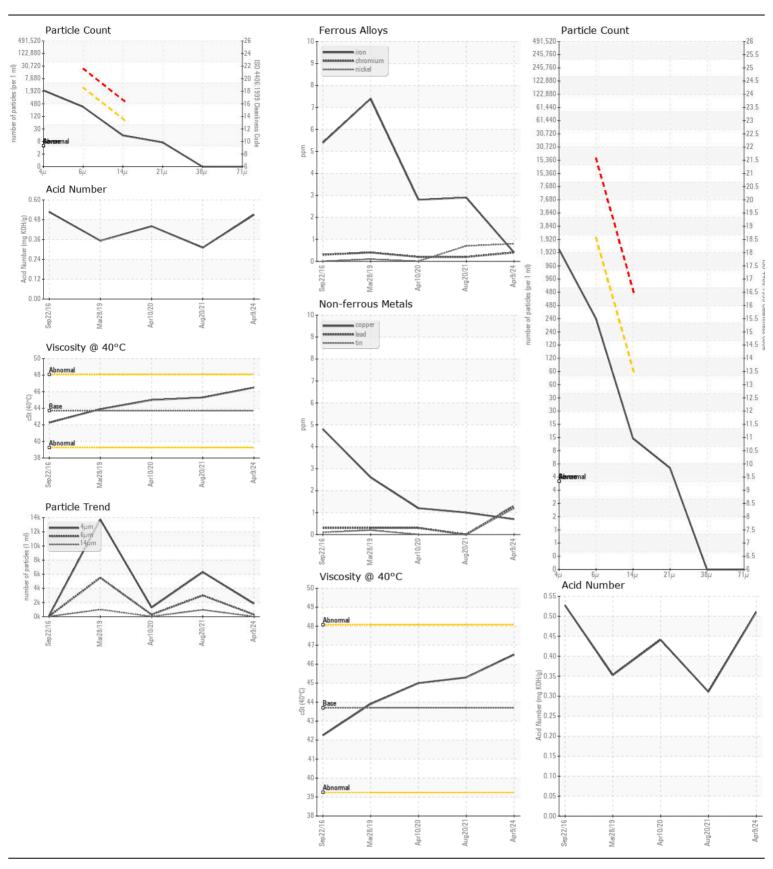


Machine Id **VOLVO L180G 19399**

Hydraulic System

CHEVRON HYDRAULIC OIL AW ISO 46 (40 GAL)

CHEVRON HYDRAULIC OIL AW ISO 46 (40 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		ML0001155	VCP318151	VCP276642
Resample at the next service interval to monitor.	Sample Date		Client Info		09 Apr 2024	20 Aug 2021	10 Apr 2020
	Machine Age	hrs	Client Info		15712	13690	11177
	Oil Age	hrs	Client Info		4000	0	0
	Filter Age	hrs	Client Info		2000	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	<1	3	3
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	710	<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	<1	<1
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		<1	1	1
	Tin	ppm	ASTM D5185m		1	0	0
	Vanadium	ppm	ASTM D5185m	7 = 0	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1	2	3
The amount and size of particulates present in the system are	Potassium	ppm	ASTM D5185m		<1	3	<1
acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		1831	6285	1281
	Particles >6μm		ASTM D7647		299	▲ 3004	293
	Particles >14μm		ASTM D7647		13	<u>^</u> 969	22
	Particles >21µm		ASTM D7647		6	422	6
	Particles >38µm		ASTM D7647		0	1 6	0
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		18/15/11	20/19/17	17/15/12
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual *Visual	NORML	NORML NORML	NORML NORML	NORML
	Odor Emulsified Water	scalar	*Visual	NORML		NEG	NORML NEG
		scalar	VISUAI	>0.1	NEG	NEG	INEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	<1
	Boron	ppm	ASTM D5185m		0	6	78
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		1	<1	2
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		6	6	11
	Calcium	ppm	ASTM D5185m		69	166	187
	Phosphorus	ppm	ASTM D5185m		382	351	344
	Zinc	ppm	ASTM D5185m		435	394	437
	Sulfur	ppm	ASTM D5185m		2522	3370	2056
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.51	0.311	0.441
	Visc @ 40°C	cSt	ASTM D445	43.7	46.5	45.3	45.0





Certificate L2367

Report Id: RELMIL [WUSCAR] 06147260 (Generated: 04/16/2024 10:53:36) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0001155 Lab Number : 06147260 Unique Number: 10977338 Test Package : CONST

Received : 12 Apr 2024 **Tested**

: 15 Apr 2024 : 16 Apr 2024 - Don Baldridge Diagnosed

RELIABLE CONTRACTING

2410 EVERGREEN RD SUITE 200 GAMBRILLS, MD

US 21054 Contact: RUSSELL HATFIELD

RHATFIELD@RELIABLECONTRACTING.COM T: (410)987-1851

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)

F: