



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
TMR-Opa Locka [730366]
Machine Id
4419 VOLVO L180H 31479
Component
Rear Left Final Drive
Fluid
TDTO FLUID SAE 10W (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454670	VCP249529	---
Sample Date		Client Info		10 Jul 2024	26 Nov 2019	---
Machine Age	hrs	Client Info		12654	3679	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1000	358	866	---
Chromium	ppm	ASTM D5185m	>10	3	9	---
Nickel	ppm	ASTM D5185m	>10	2	3	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	4	<1	---
Lead	ppm	ASTM D5185m	>25	0	<1	---
Copper	ppm	ASTM D5185m	>30	<1	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

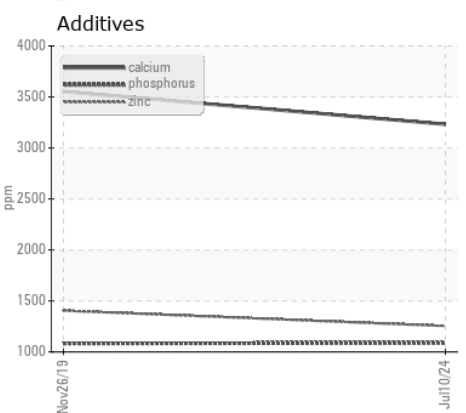
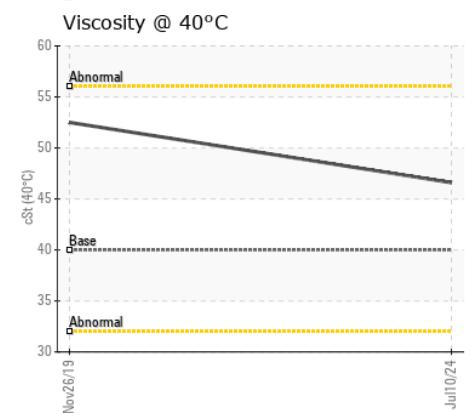
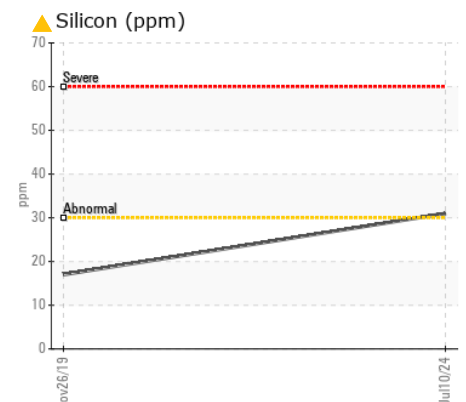
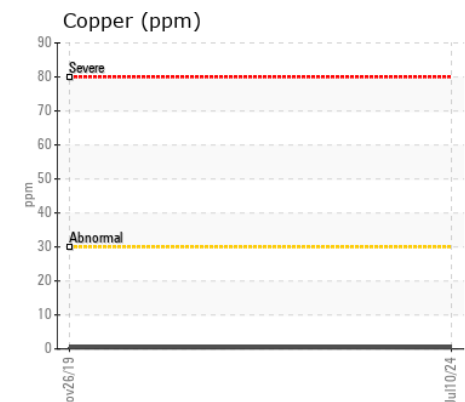
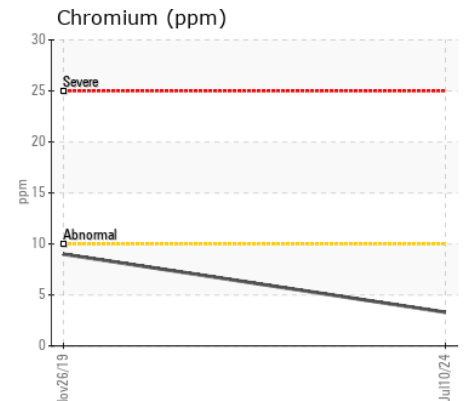
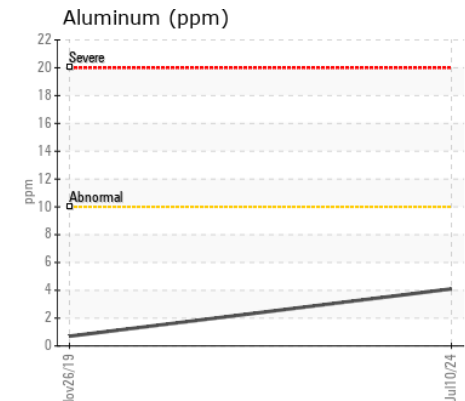
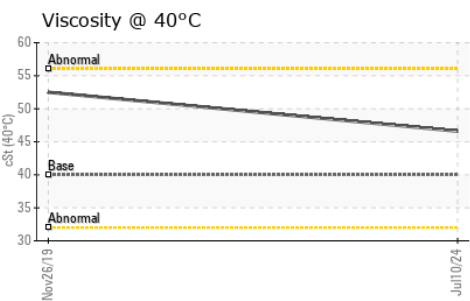
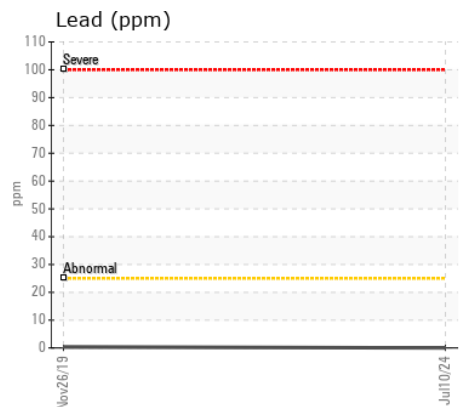
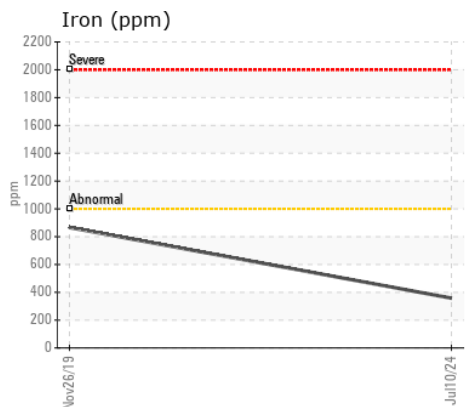
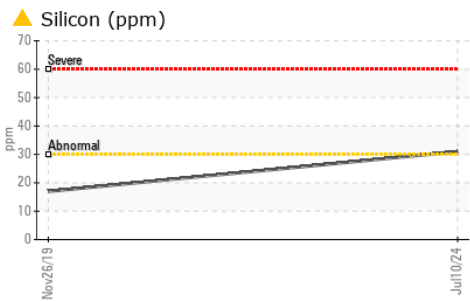
Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>30	▲ 31	17	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		8	16	---
Boron	ppm	ASTM D5185m	37	71	108	---
Barium	ppm	ASTM D5185m	7	<1	0	---
Molybdenum	ppm	ASTM D5185m	5	8	15	---
Manganese	ppm	ASTM D5185m		4	8	---
Magnesium	ppm	ASTM D5185m	40	33	16	---
Calcium	ppm	ASTM D5185m	2650	3232	3553	---
Phosphorus	ppm	ASTM D5185m	1050	1088	1083	---
Zinc	ppm	ASTM D5185m	1075	1254	1405	---
Sulfur	ppm	ASTM D5185m	5750	4607	3900	---
Visc @ 40°C	cSt	ASTM D445	40	46.6	52.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454670 **Received** : 17 Jul 2024
Lab Number : 06239463 **Tested** : 18 Jul 2024
Unique Number : 11128297 **Diagnosed** : 19 Jul 2024 - Don Baldridge
Test Package : MOB 1

TRADEMARK METALS RECYCLING - EVERGLADES
 3440 NW 135TH ST
 OPA LOCKA, FL
 US 33054
 Contact: RYAN BOWDEN

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)