



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A35G 340049
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002166	VCP215396	---
Sample Date		Client Info		11 Jun 2024	17 Feb 2018	---
Machine Age	hrs	Client Info		9382	4202	---
Oil Age	hrs	Client Info		1031	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	9	17	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	4	6	---
Lead	ppm	ASTM D5185m	>20	1	2	---
Copper	ppm	ASTM D5185m	>150	7	11	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

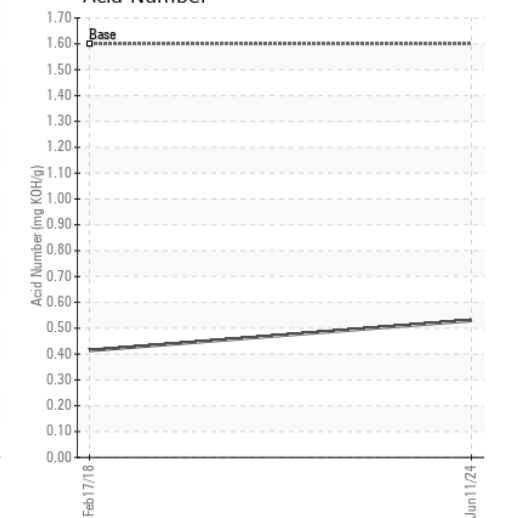
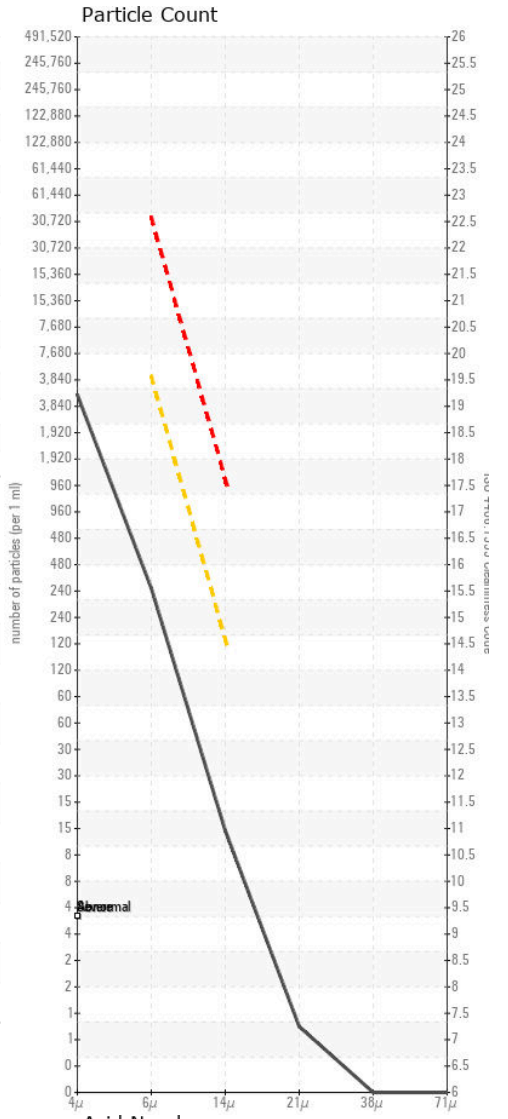
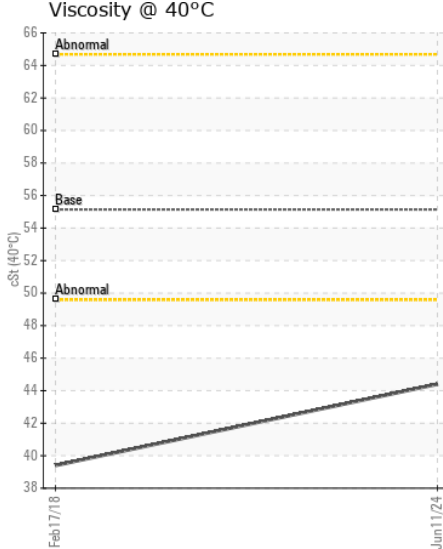
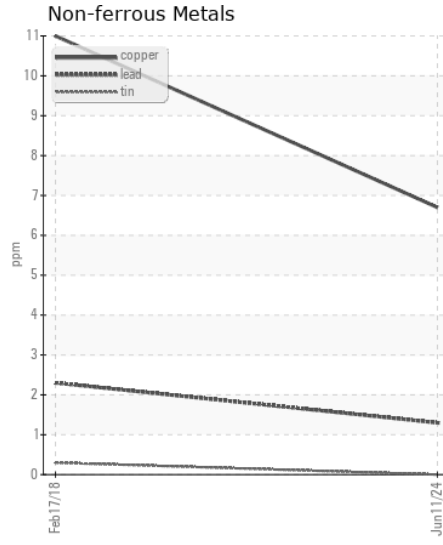
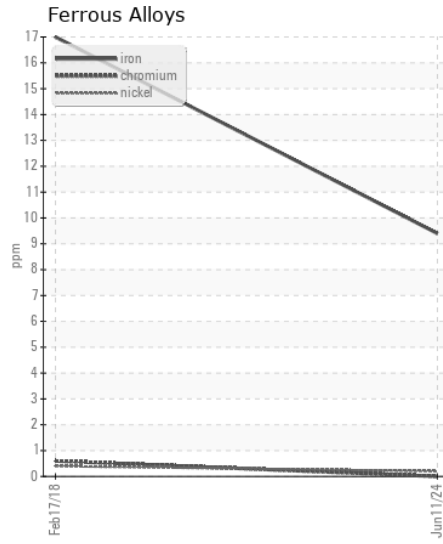
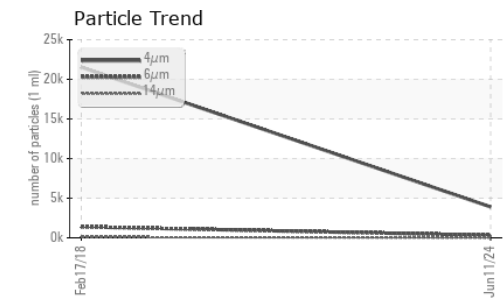
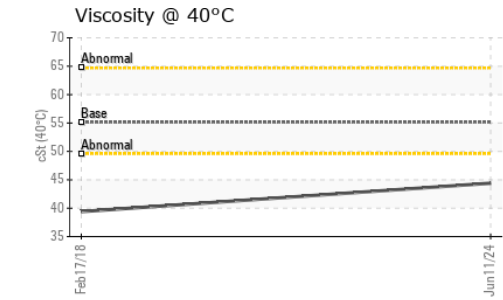
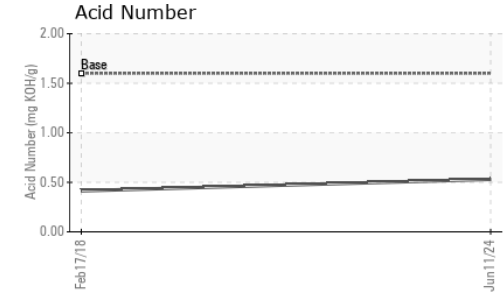
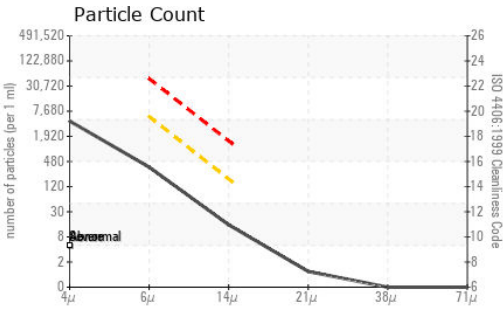
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	13	▲ 21	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647		3899	21534	---
Particles >6µm		ASTM D7647	>5000	310	1392	---
Particles >14µm		ASTM D7647	>160	13	86	---
Particles >21µm		ASTM D7647	>40	1	23	---
Particles >38µm		ASTM D7647	>10	0	2	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>-/19/14	19/15/11	22/18/14	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	<1	---
Boron	ppm	ASTM D5185m	110	41	<1	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	0	0	---
Manganese	ppm	ASTM D5185m	1	<1	<1	---
Magnesium	ppm	ASTM D5185m	13	17	3	---
Calcium	ppm	ASTM D5185m	3610	1535	66	---
Phosphorus	ppm	ASTM D5185m	1192	704	352	---
Zinc	ppm	ASTM D5185m	1455	859	418	---
Sulfur	ppm	ASTM D5185m	2641	4154	5829	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	0.53	0.414	---
Visc @ 40°C	cSt	ASTM D445	55.14	44.4	39.4	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002166 **Received** : 20 Jun 2024
Lab Number : 06215758 **Tested** : 21 Jun 2024
Unique Number : 11088622 **Diagnosed** : 22 Jun 2024 - Don Baldrige
Test Package : CONST

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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)