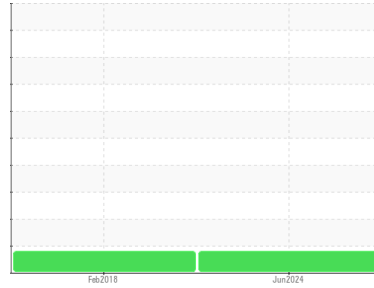


OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area

[NICHOLS EXC]

Machine Id

VOLVO A35G 340049

Component

Brake Cooling System

Fluid

PETRO CANADA DURATRAN (--- GAL)



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The copper level is abnormal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ML0002168	VCP215397	---
Sample Date	Client Info		11 Jun 2024	17 Feb 2018	---
Machine Age	hrs	Client Info	9382	4202	---
Oil Age	hrs	Client Info	1031	0	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	58	76	---
Chromium	ppm	ASTM D5185m >20	1	2	---
Nickel	ppm	ASTM D5185m >10	2	4	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >30	3	2	---
Lead	ppm	ASTM D5185m >50	<1	<1	---
Copper	ppm	ASTM D5185m >200	▲ 201	▲ 275	---
Tin	ppm	ASTM D5185m >20	0	0	---
Antimony	ppm	ASTM D5185m >5	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 110	97	114	---
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	14	11	---
Calcium	ppm	ASTM D5185m 3610	3555	3914	---
Phosphorus	ppm	ASTM D5185m 1192	1361	1374	---
Zinc	ppm	ASTM D5185m 1455	1532	1439	---
Sulfur	ppm	ASTM D5185m 2641	4248	5205	---

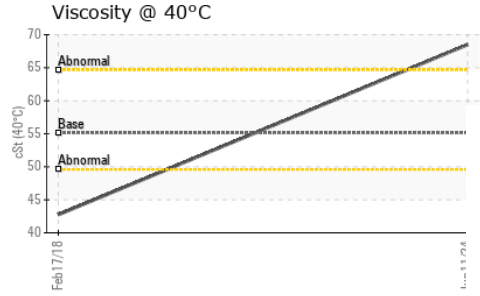
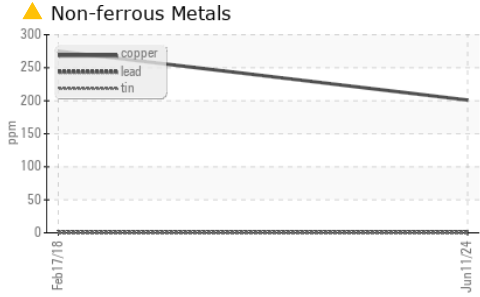
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	25	30	---
Sodium	ppm	ASTM D5185m	<1	4	---
Potassium	ppm	ASTM D5185m >20	2	1	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
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	---
Free Water	scalar	*Visual	NEG	NEG	---

OIL ANALYSIS REPORT

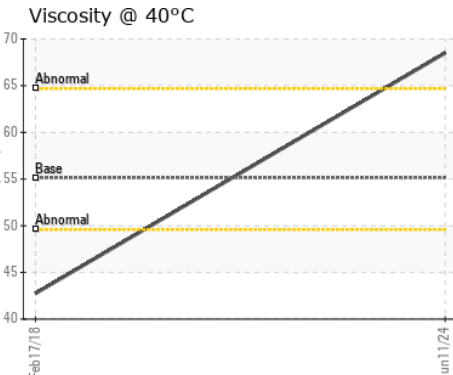
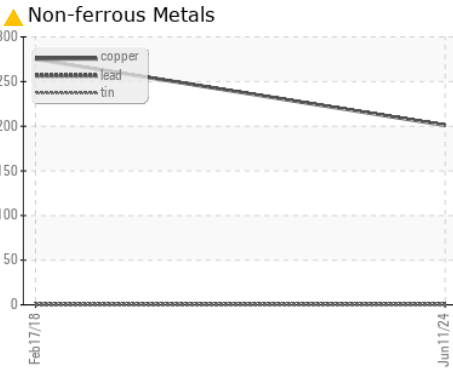
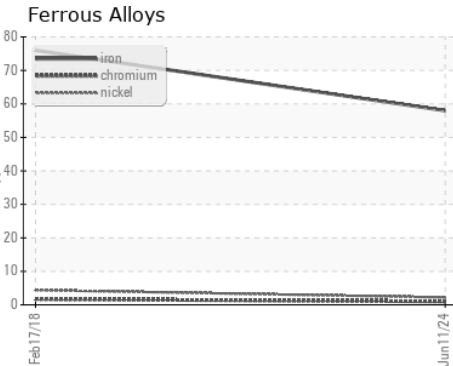


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55.14	68.5	42.74	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color	no image	no image	no image
Bottom	no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002168 **Received** : 20 Jun 2024
Lab Number : **06216117** **Tested** : 21 Jun 2024
Unique Number : 11088981 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : CONST

NICHOLS EXCAVATION INC
 324 MARKUS CT
 NEWARK, DE
 US 19713
 Contact: JEFF MOORE
 jeffm@nicholsexcavation.com
 T: (302)275-8818
 F:

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)