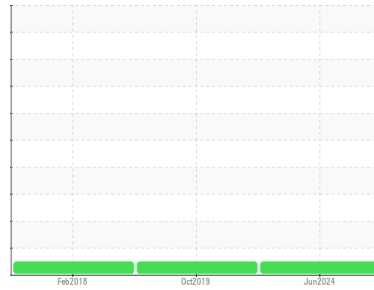


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[NICHOLS EXC]
 Machine Id
VOLVO A35G 340049
 Component
Transmission (Auto)
 Fluid
PETRO CANADA ATF D3M (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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			ML0002164	VCP253378	VCP214774
Sample Date	Client Info			11 Jun 2024	22 Oct 2019	17 Feb 2018
Machine Age	hrs	Client Info		9382	5904	4202
Oil Age	hrs	Client Info		1031	2000	0
Oil Changed	Client Info			Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

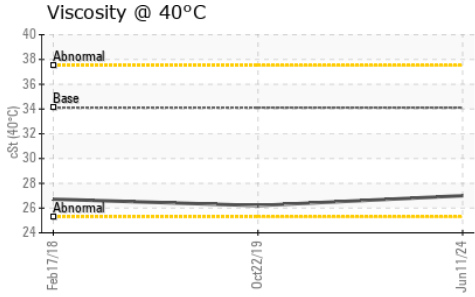
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	60	48	65
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	5	5
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	34	40	32
Lead	ppm	ASTM D5185m	>50	0	0	24
Copper	ppm	ASTM D5185m	>225	18	35	59
Tin	ppm	ASTM D5185m	>10	3	5	6
Antimony	ppm	ASTM D5185m		---	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	98	82	74	66
Barium	ppm	ASTM D5185m	<0.00	0	0	15
Molybdenum	ppm	ASTM D5185m		0	2	0
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	<1	2	2	1
Calcium	ppm	ASTM D5185m	70	92	86	96
Phosphorus	ppm	ASTM D5185m	220	223	169	178
Zinc	ppm	ASTM D5185m		6	8	10
Sulfur	ppm	ASTM D5185m	710	1931	1628	2473

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	8	10
Sodium	ppm	ASTM D5185m		4	4	6
Potassium	ppm	ASTM D5185m	>20	3	8	3

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

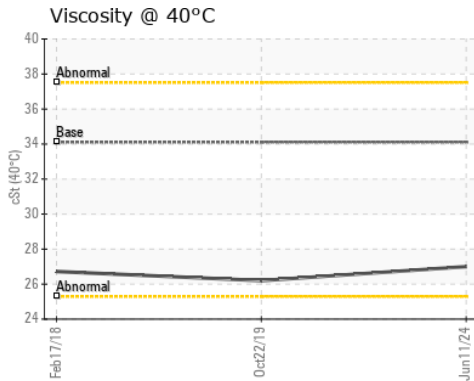
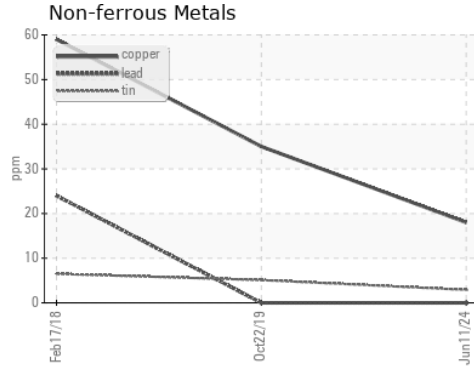
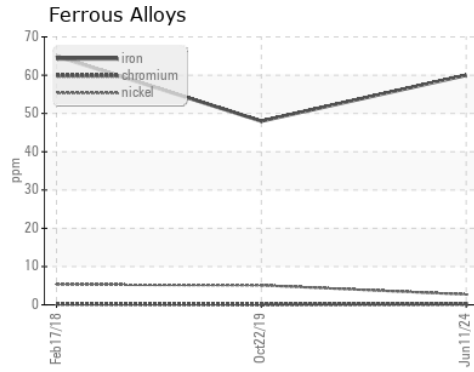
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	34.11	27.0	26.2	26.72

SAMPLE IMAGES	method	limit/base	current	history1	history2
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. : ML0002164
Lab Number : 06216107
Unique Number : 11088971
Test Package : CONST
Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 23 Jun 2024 - Don Baldrige

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)