



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Area
[8-400712]
Machine Id
27-4550
Component
Rear Left Final Drive
Fluid
GEAR OIL SAE 80 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP450449	VCP394920	VCP352420
Sample Date		Client Info		12 Apr 2024	28 Jun 2023	18 Oct 2022
Machine Age	hrs	Client Info		12023	11005	10003
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>3360	2072	64	▲ 9279
Chromium	ppm	ASTM D5185(m)	>35	13	2	▲ 45
Nickel	ppm	ASTM D5185(m)	>8	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>15	5	0	▲ 18
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>185	83	<1	● 272
Lead	ppm	ASTM D5185(m)	>5	0	0	<1
Copper	ppm	ASTM D5185(m)	>80	4	<1	19
Tin	ppm	ASTM D5185(m)	>8	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

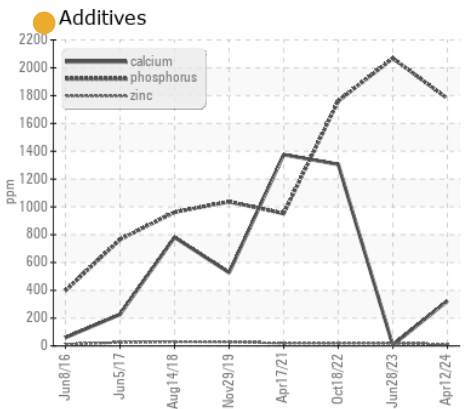
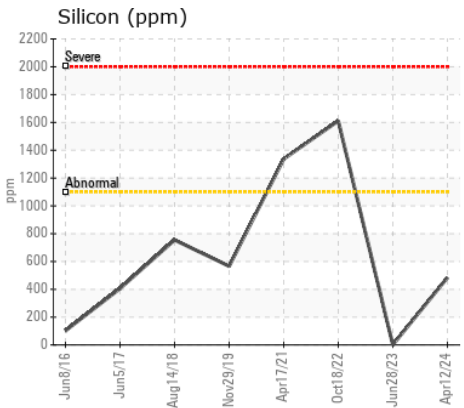
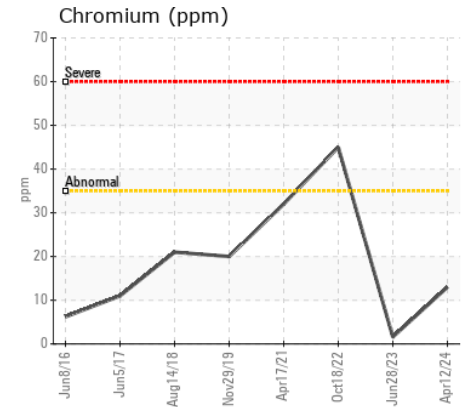
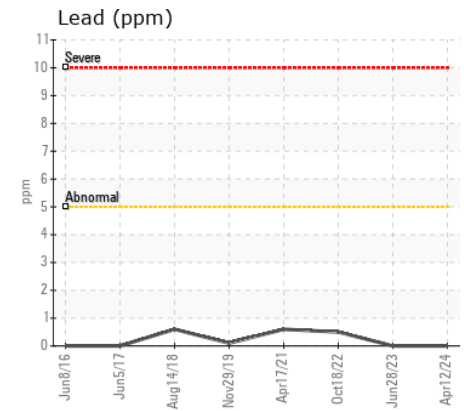
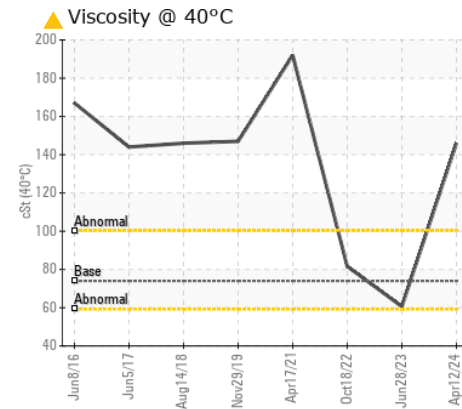
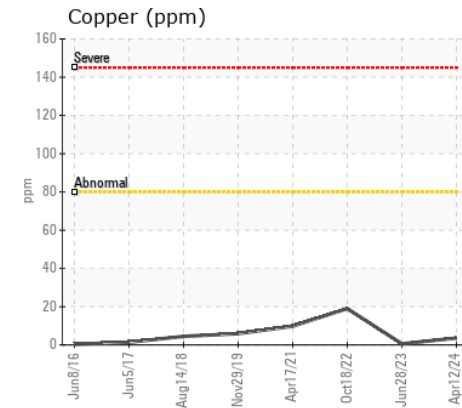
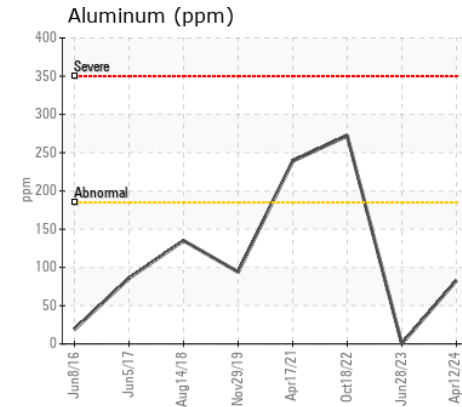
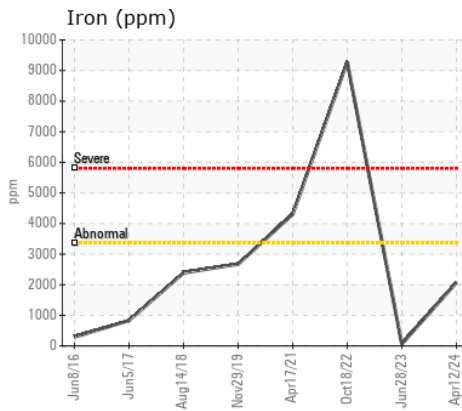
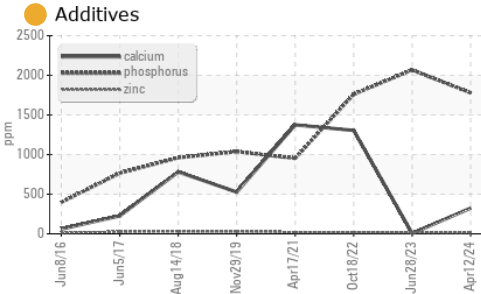
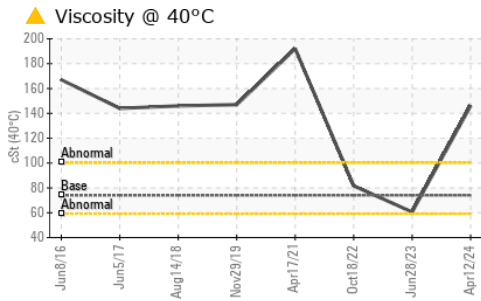
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>1100	484	1	▲ 1611
Potassium	ppm	ASTM D5185(m)	>20	27	<1	92
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	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*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		31	2	107
Boron	ppm	ASTM D5185(m)	400	100	187	167
Barium	ppm	ASTM D5185(m)	200	0	2	0
Molybdenum	ppm	ASTM D5185(m)	12	0	<1	3
Manganese	ppm	ASTM D5185(m)		14	1	46
Magnesium	ppm	ASTM D5185(m)	12	23	1	69
Calcium	ppm	ASTM D5185(m)	150	● 324	6	1305
Phosphorus	ppm	ASTM D5185(m)	1650	1779	2068	1760
Zinc	ppm	ASTM D5185(m)	125	13	18	19
Sulfur	ppm	ASTM D5185(m)	22500	14365	23558	31923
Visc @ 40°C	cSt	ASTM D7279(m)	74	▲ 146	60.6	81.6



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : VCP450449

Lab Number : 02631795

Unique Number : 5772948

Test Package : MOB 1

Received : 26 Apr 2024

Tested : 26 Apr 2024

Diagnosed : 29 Apr 2024 - Kevin Marson

CRH CANADA GROUP INC.

P.O. BOX 5400

CONCORD, ON

CA L4K 1B6

Contact: Dan Brown

dan.brown@ca.crh.com

T:

F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.