CONST

McCLUNG-LOGAN EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W/O 10836]
Machine Id
VOLVO L90H 626681
Component
Diesel Engine
Fluid
CHEVRON 15W40 (5 GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

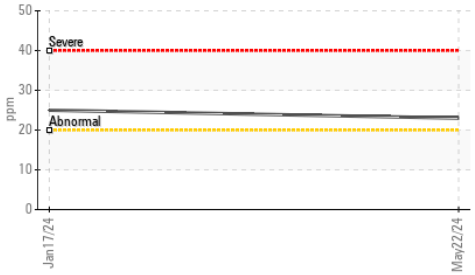
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

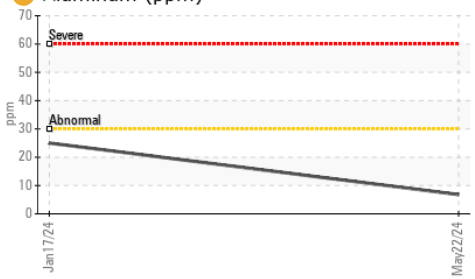
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002182	VCP414790	---
Sample Date		Client Info		22 May 2024	17 Jan 2024	---
Machine Age	hrs	Client Info		1474	1053	---
Oil Age	hrs	Client Info		421	0	---
Filter Age	hrs	Client Info		421	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>200	8	49	---
Chromium	ppm	ASTM D5185m	>20	<1	4	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	7	25	---
Lead	ppm	ASTM D5185m	>40	0	2	---
Copper	ppm	ASTM D5185m	>20	2	16	---
Tin	ppm	ASTM D5185m	>20	<1	4	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	23	25	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	6.1	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	22.1	---
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	---
Sodium	ppm	ASTM D5185m	>50	1	4	---
Boron	ppm	ASTM D5185m		245	32	---
Barium	ppm	ASTM D5185m		<1	6	---
Molybdenum	ppm	ASTM D5185m		89	41	---
Manganese	ppm	ASTM D5185m		1	6	---
Magnesium	ppm	ASTM D5185m		645	591	---
Calcium	ppm	ASTM D5185m		1413	1574	---
Phosphorus	ppm	ASTM D5185m		889	931	---
Zinc	ppm	ASTM D5185m		1018	1157	---
Sulfur	ppm	ASTM D5185m		3224	3153	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	20.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	7.4	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.5	---

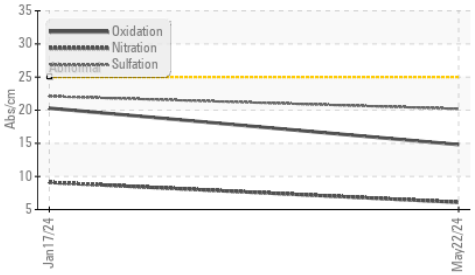
Silicon (ppm)



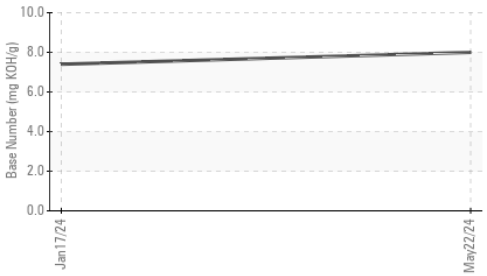
Aluminum (ppm)



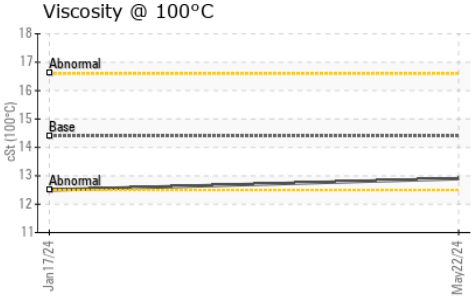
FT-IR (Direct Trend)



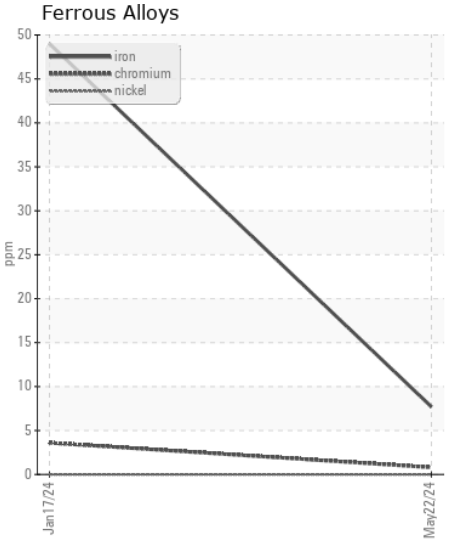
Base Number



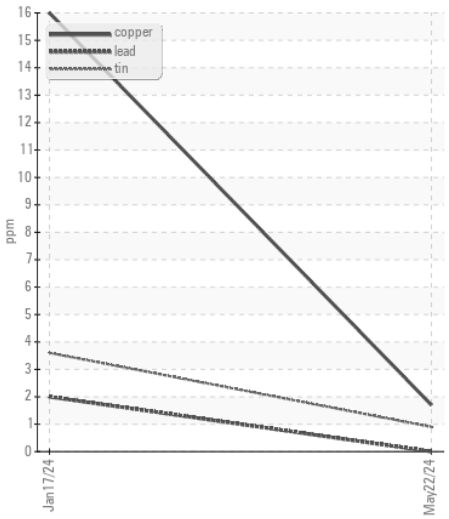
Viscosity @ 100°C



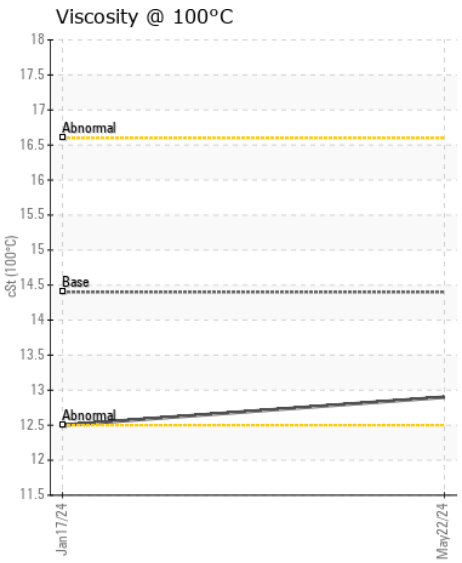
Ferrous Alloys



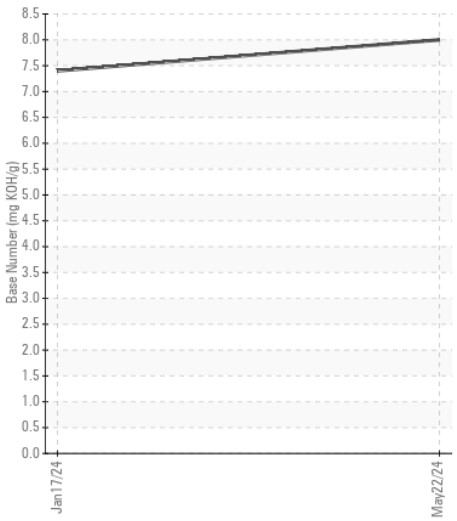
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002182 **Received** : 31 May 2024
Lab Number : 06196248 **Tested** : 03 Jun 2024
Unique Number : 11058371 **Diagnosed** : 03 Jun 2024 - Don Baldridge
Test Package : CONST (Additional Tests: TBN)

Certificate L2367

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)

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