



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L220H 3064
Component
Diesel Engine
Fluid
CHEVRON 15W40 (15 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001203	VCP409445	VCP422878
Sample Date		Client Info		19 Apr 2024	15 Dec 2023	03 Nov 2023
Machine Age	hrs	Client Info		17902	16951	16503
Oil Age	hrs	Client Info		17902	0	0
Filter Age	hrs	Client Info		17902	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	7	2	1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		1	2	2
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>10	4	1	2
Lead	ppm	ASTM D5185m	>20	3	0	0
Copper	ppm	ASTM D5185m	>15	3	0	0
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

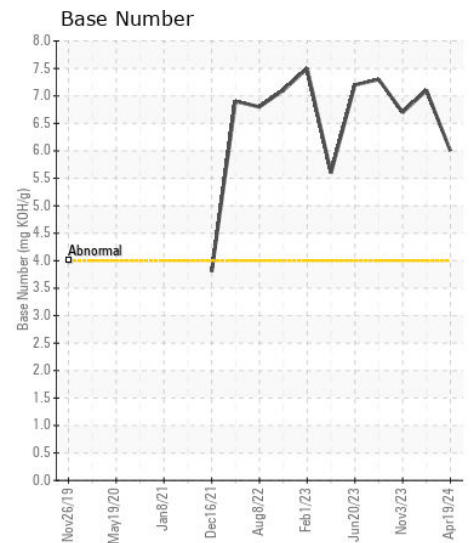
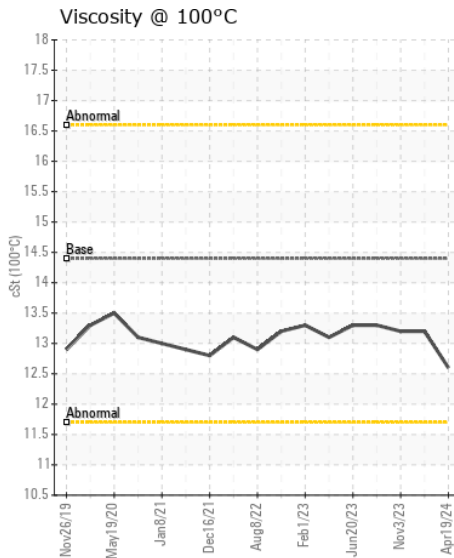
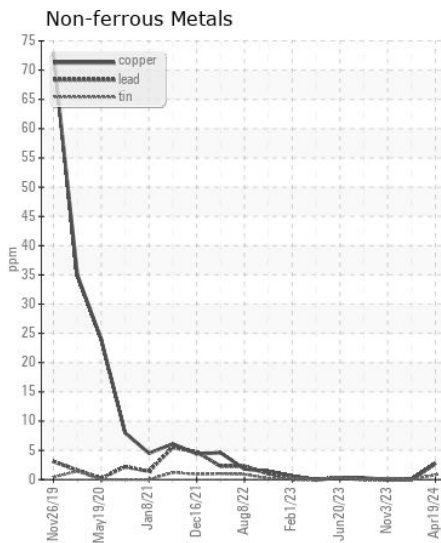
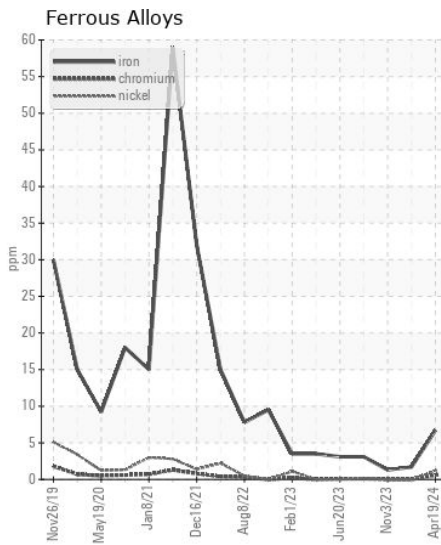
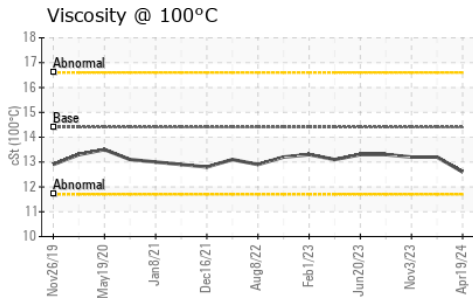
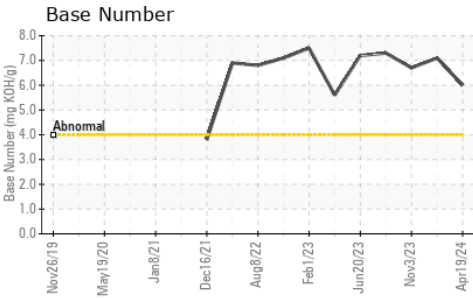
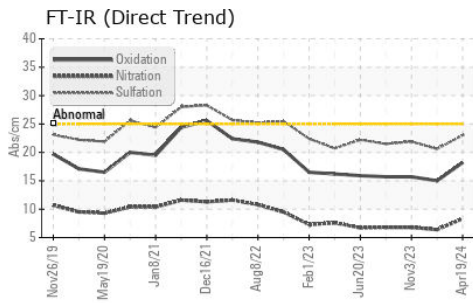
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	19	14	20
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.3	6.4	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	20.6	21.9
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>50	1	1	<1
Boron	ppm	ASTM D5185m		224	285	364
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m		113	64	86
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		554	341	407
Calcium	ppm	ASTM D5185m		1435	1428	1358
Phosphorus	ppm	ASTM D5185m		813	870	1075
Zinc	ppm	ASTM D5185m		985	1142	1294
Sulfur	ppm	ASTM D5185m		2913	3079	3352
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	15.0	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.0	7.1	6.7
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	13.2	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001203
Lab Number : 06161286
Unique Number : 10996709
Test Package : CONST (Additional Tests: TBN)

Received : 26 Apr 2024
Tested : 28 Apr 2024
Diagnosed : 29 Apr 2024 - Don Baldrige

WHEELABRATOR
 1801 ANNAPOLIS RD
 BALTIMORE, MD
 US 21230
 Contact: SERVICE MANAGER

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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