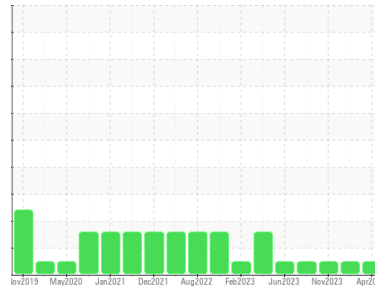


OIL ANALYSIS REPORT



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

Sample Rating Trend



NORMAL

✓

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 oil.
- 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.

SAMPLE INFORMATION

	method	limit/base	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
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2
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
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
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

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	19	14	20
Sodium	ppm	ASTM D5185m >50	1	1	<1
Potassium	ppm	ASTM D5185m >20	3	0	<1

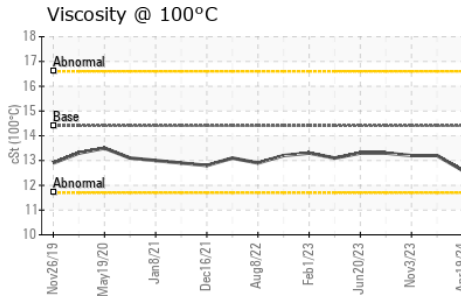
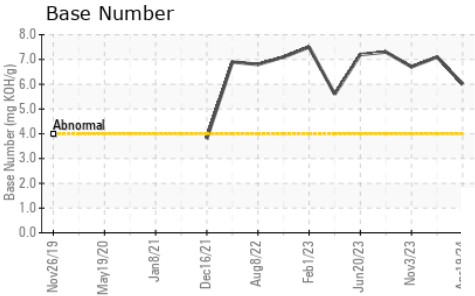
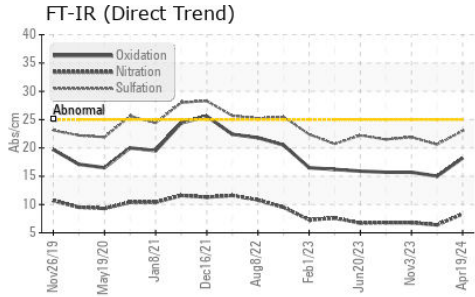
INFRA-RED

	method	limit/base	current	history1	history2
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

FLUID DEGRADATION

	method	limit/base	current	history1	history2
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

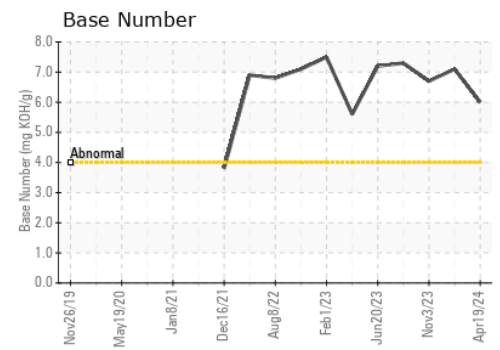
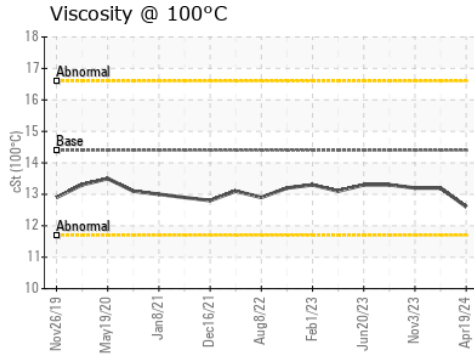
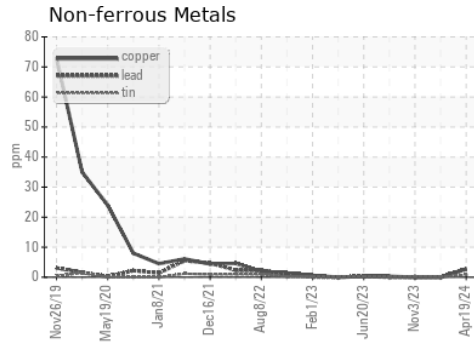
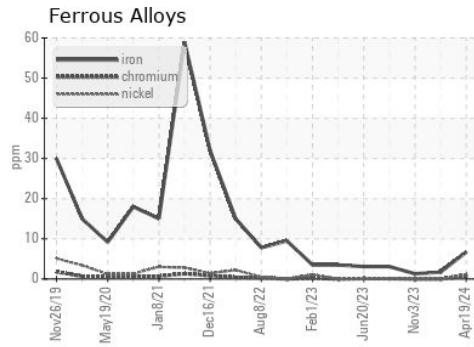
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	13.2	13.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001203 **Received** : 26 Apr 2024
Lab Number : **06161286** **Tested** : 28 Apr 2024
Unique Number : 10996709 **Diagnosed** : 29 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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)

T: (215)428-7902
 F: