

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

## Area [W/O10619] Machine Id VOLVO L180H 5100 Component Diesel Engine Fluid CHEVRON 15W40 (13 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	UOIVI	Client Info		ML0001170	ML0000128	VCP426364
Resample at the next service interval to monitor.	Sample Date		Client Info		09 Apr 2024	23 Jan 2024	20 Oct 2023
	Machine Age	hrs	Client Info		13489	13139	12624
	Oil Age	hrs	Client Info		500	515	0
	Filter Age	hrs	Client Info		500	515	0
	Oil Changed	-	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	5	4	2
All component wear rates are normal.	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	0
	Aluminum	ppm	ASTM D5185m	>10	2	2	2
	Lead	ppm	ASTM D5185m		1	<1	0
	Copper	ppm	ASTM D5185m	>15	<1	<1	0
	Tin	ppm	ASTM D5185m	>10	1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	5	5
	Potassium	ppm	ASTM D5185m		2	<1	0
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		_ <1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.4	6.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.2	21.6
	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	Sodium	ppm	ASTM D5185m	>50	0	2	2
	Boron	ppm	ASTM D5185m		314	418	356
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		91	84	85
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		511	413	415
	Calcium	ppm	ASTM D5185m		1444	1450	1389
	Phosphorus	ppm	ASTM D5185m		870	994	968
	Zinc	ppm	ASTM D5185m		944	1262	1297
	Sulfur	ppm	ASTM D5185m		2817	3295	3362
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	14.7	15.4
	D N I (DI)	1/011/	LOTH DOGO			= 0	

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445 14.4

Visc @ 100°C cSt

7.0

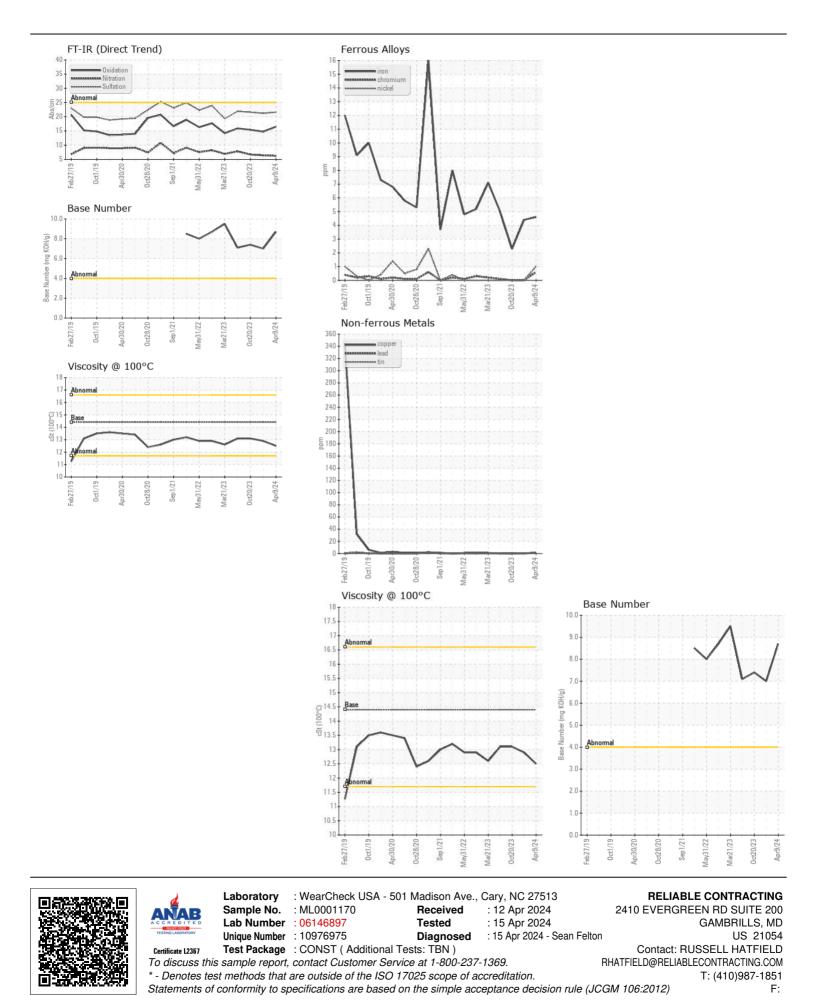
12.9

7.4

13.1

8.7

12.5



Report Id: RELMIL [WUSCAR] 06146897 (Generated: 04/15/2024 16:26:32) Rev: 1

Submitted By: DELANO GREGORY Page 2 of 2