MOB I VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
TMR-Okeechobee [60849]
Machine Id
434166 VOLVO L180H 4821
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

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.

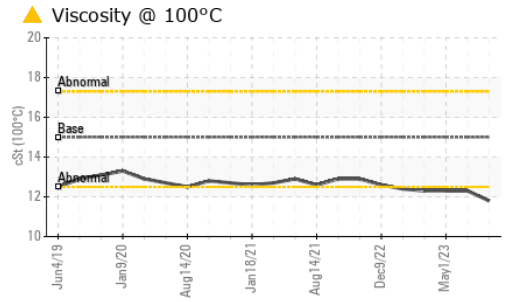
CONTAMINATION

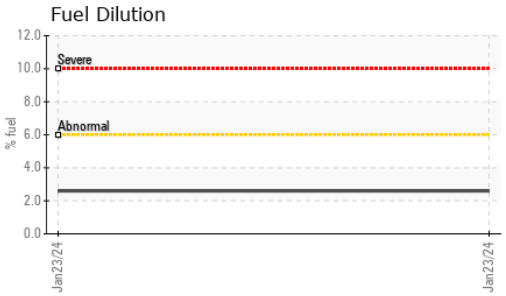
Fuel content negligible. There is no indication of any contamination in the oil.

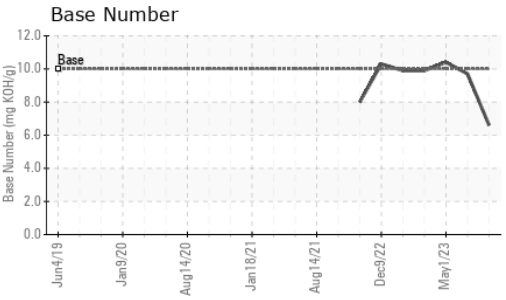
FLUID CONDITION

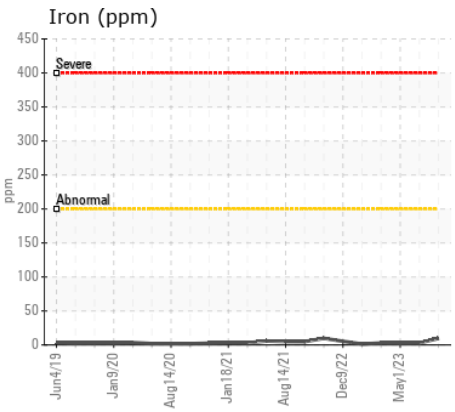
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

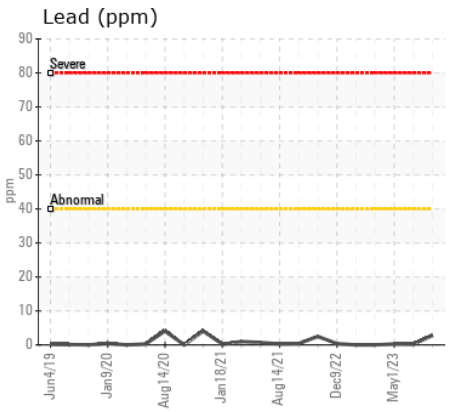
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP432915	VCP412620	VCP408001
Sample Date		Client Info		23 Jan 2024	21 Jul 2023	01 May 2023
Machine Age	hrs	Client Info		15313	13817	13007
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	10	3	2
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	<1	0
Lead	ppm	ASTM D5185m	>40	3	<1	<1
Copper	ppm	ASTM D5185m	>20	2	3	<1
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	6	3	4
Potassium	ppm	ASTM D5185m	>20	2	0	1
Fuel	%	ASTM D3524	>6.0	2.6	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.6	6.6	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.8	21.5
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	3	3
Boron	ppm	ASTM D5185m	2.5	14	38	44
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.7	39	42	42
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	256	481	495	507
Calcium	ppm	ASTM D5185m	2057	1578	1710	1598
Phosphorus	ppm	ASTM D5185m	935	937	907	941
Zinc	ppm	ASTM D5185m	1223	1110	1108	1123
Sulfur	ppm	ASTM D5185m	4079	2721	3371	3654
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	20.2	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.6	9.7	10.4
Visc @ 100°C	cSt	ASTM D445	15.0	▲ 11.8	12.3	12.3

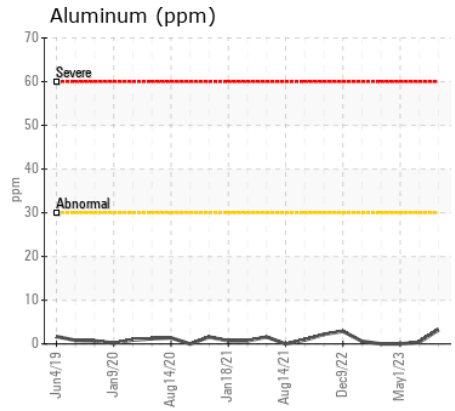


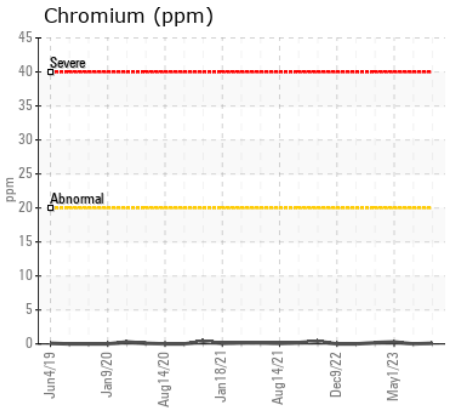


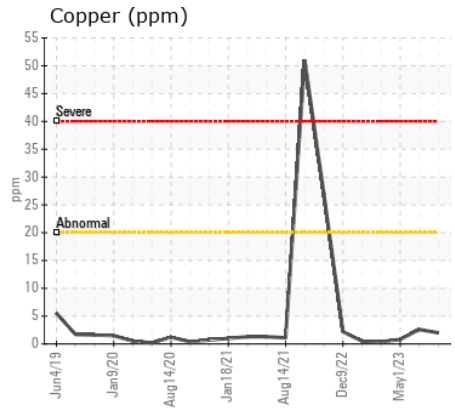


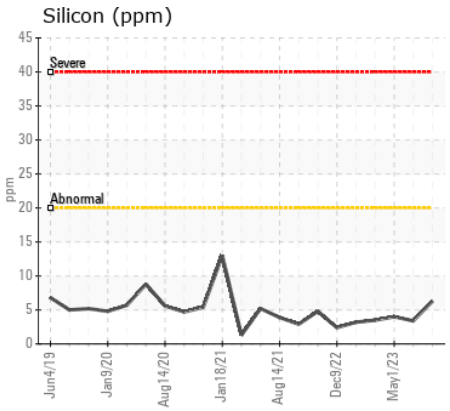


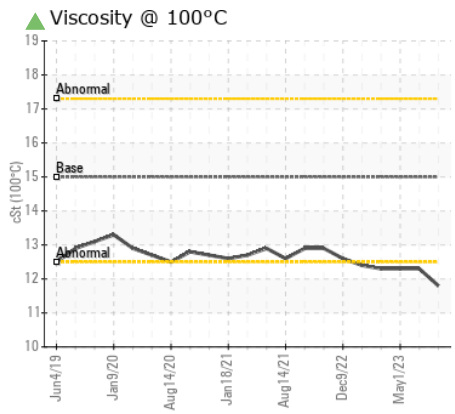


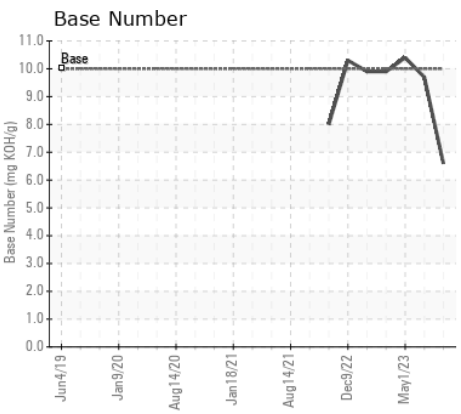












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: VCP432915	**Recieved**	: 31 Jan 2024
Lab Number	: 06075484	**Diagnosed**	: 02 Feb 2024
Unique Number	: 10857575	**Diagnostician**	: Jonathan Hester
Test Package	: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)		

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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