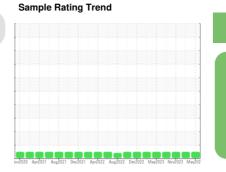


# **OIL ANALYSIS REPORT**





NORMAL



VOLVO L150H 4375 Component Diesel Engine Eluid

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

Machine Id

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

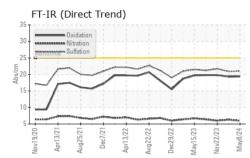
### Fluid Condition

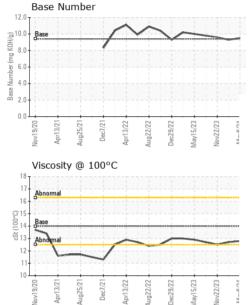
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0000185	ML0000155	VCP442915
Sample Date		Client Info		08 May 2024	27 Feb 2024	22 Nov 2023
Machine Age	hrs	Client Info		11473	11242	11007
Oil Age	hrs	Client Info		231	235	219
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٨	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	3	1	0
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	1	1	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
Cadiman	ppin	AGTIVI DOTODITI		U	0	0
ADDITIVES	ppin	method	limit/base	current	0 history1	history2
	ppm		limit/base		-	-
ADDITIVES		method ASTM D5185m		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 78	history1 52	history2 53
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	0	current 78 0	history1 52 0	history2 53 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0	current 78 0 45	history1 52 0 41	history2 53 0 39
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 78 0 45 <1	history1 52 0 41 <1	history2 53 0 39 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 78 0 45 <1 540	history1 52 0 41 <1 499 1471 693	history2 53 0 39 <1 522
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0	Current 78 0 45 <1 540 1789	history1 52 0 41 <1 499 1471 693 868	history2 53 0 39 <1 522 1657 714 950
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0	Current 78 0 45 <1 540 1789 829	history1 52 0 41 <1 499 1471 693 868 2323	history2 53 0 39 <1 522 1657 714 950 2598
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0	current           78           0           45           <1           540           1789           829           964	history1 52 0 41 <1 499 1471 693 868	history2 53 0 39 <1 522 1657 714 950
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 Init/base	Current 78 0 45 <1 540 1789 829 964 3193	history1 52 0 41 <1 499 1471 693 868 2323	history2 53 0 39 <1 522 1657 714 950 2598
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 Init/base	Current 78 0 45 <1 540 1789 829 964 3193 Current	history1         52         0         41         <1         499         1471         693         868         2323         history1	history2 53 0 39 <1 522 1657 714 950 2598 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	current           78           0           45           <1           540           1789           829           964           3193	history1           52           0           41           <1           499           1471           693           868           2323           history1           3	history2           53           0           39           <1           522           1657           714           950           2598           history2           3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	current           78           0           45           <1           540           1789           829           964           3193           current           3           6           5	history1           52           0           41           <1           499           1471           693           868           2323           history1           3           5	history2         53         0         39         <1         522         1657         714         950         2598         history2         3         4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	current           78           0           45           <1           540           1789           829           964           3193           current           3           6           5	history1         52         0         41         <1         499         1471         693         868         2323         history1         3         5         <1         history1         0.1	history2         53         0         39         <1         522         1657         714         950         2598         history2         3         4         <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Current 78 0 45 <1 540 1789 829 964 3193 Current 3 6 5 5	history1         52         0         41         <1         499         1471         693         868         2323         history1         3         5         <1         history1	history2         53         0         39         <1         522         1657         714         950         2598         history2         3         4         <1         history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Silicon Sodium Potassium INFRA-RED Soot %	ppm	method           ASTM D5185m	0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Current         78         0         45         <1         540         1789         829         964         3193         current         3         6         5         current         0.1	history1         52         0         41         <1         499         1471         693         868         2323         history1         3         5         <1         history1         0.1	history2         53         0         39         <1         522         1657         714         950         2598         history2         3         4         <1         history2         0         0.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	current           78           0           45           <1           540           1789           829           964           3193           current           3           6           5           current           0.1           6.0	history1           52           0           41           <1           499           1471           693           868           2323           history1           3           5           <1           history1           3           5           <1           history1           0.1           6.3	history2           53           0           39           <1           522           1657           714           950           2598           history2           3           4           <1           history2           0.1           6.0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m           ASTM D5185m	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Current         78         0         45         <1         540         1789         829         964         3193         current         3         6         5         current         0.1         6.0         21.0	history1         52         0         41         <1         499         1471         693         868         2323         history1         3         5         <1         history1         0.1         6.3         20.9	history2         53         0         39         <1         522         1657         714         950         2598         history2         3         4         <1         history2         0.1         6.0         21.7



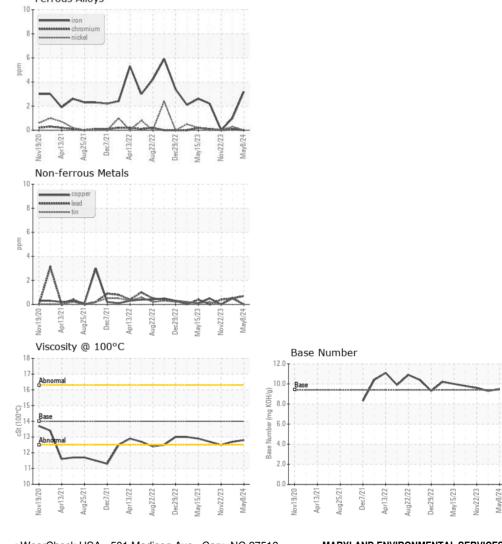
# **OIL ANALYSIS REPORT**

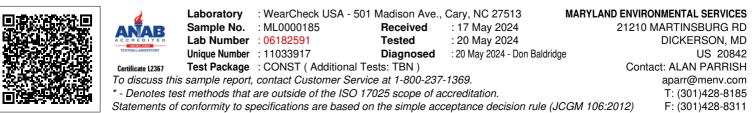




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	12.8	12.7	12.5
GRAPHS						

Ferrous Alloys





Contact/Location: ALAN PARRISH - MARDIC

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