

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Dies Fluid

Machine Id 261145 VOLVO L150H 4449 Component Diesel Engine Fluid

WMR-Salt Lake City

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

	·	ar2016 Oct2	016 Nov2017 May2021	May2022 Dec2022 May2023	Nov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DJJ0009438	DJJ0015298	DJJ0008930
Sample Date		Client Info		28 Dec 2023	06 Nov 2023	12 Sep 2023
Machine Age	hrs	Client Info		16024	15734	15438
Oil Age	hrs	Client Info		300	280	300
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	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	1	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	2
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>15	0	0	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	41	7	10
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.7	64	59	91
Manganese	ppm	ASTM D5185m	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185m	256	559	944	1285
Calcium	ppm	ASTM D5185m	2057	1438	1014	1457
Phosphorus	ppm	ASTM D5185m	935	1011	1033	1354
Zinc	ppm	ASTM D5185m	1223	1180	1248	1671
Sulfur	ppm	ASTM D5185m	4079	4143	3037	4929
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	4
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.3	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	17.8	18.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.1	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.4	9.3	9.2

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

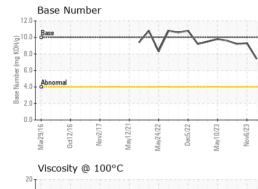
There is no indication of any contamination in the oil.

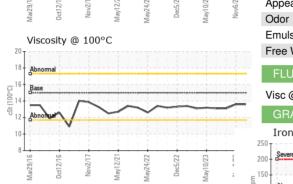
Fluid Condition

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



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Certificate L2367

Contact/Location: TIMOTHY SHEFFIELD - WESSALUT