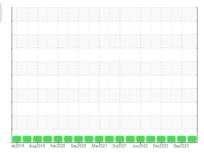


OIL ANALYSIS REPORT

Sample Rating Trend









WOLVO L90H 624579

Diesel Engine

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (5 GAL)

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

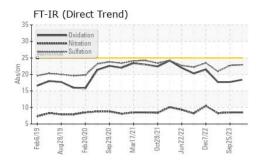
Fluid Condition

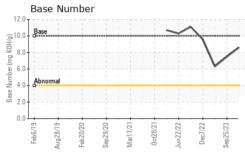
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

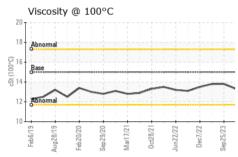
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002191	VCP414815	VCP423092
Sample Date		Client Info		01 Jul 2024	25 Sep 2023	27 Apr 2023
Machine Age	hrs	Client Info		9105	8177	7666
Dil Age	hrs	Client Info		928	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		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
ron	ppm	ASTM D5185m	>100	9	7	7
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	4	3
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>15	<1	<1	0
Tin	ppm	ASTM D5185m	>10	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	198	317	361
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0.7	101	101	98
Manganese	ppm	ASTM D5185m	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185m	256	590	443	526
Calcium	ppm	ASTM D5185m	2057	1733	1478	1714
Phosphorus	ppm	ASTM D5185m	935	920	1077	1140
Zinc	ppm	ASTM D5185m	1223	1041	1290	1463
Sulfur	ppm	ASTM D5185m	4079	3239	3311	4018
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	8	5
Sodium	ppm	ASTM D5185m		2	3	<1
Potassium	ppm	ASTM D5185m	>20	<1	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.5	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	22.7	20.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	17.7	17.7

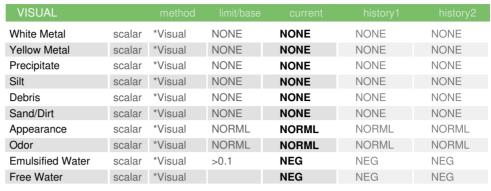


OIL ANALYSIS REPORT

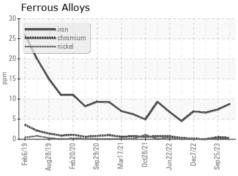


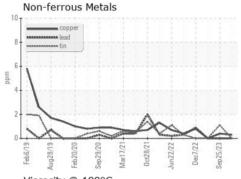


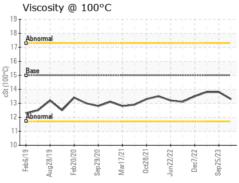


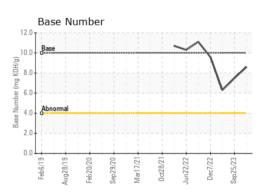


FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.0	13.3	13.8	13.8	













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0002191 Lab Number : 06234230 Unique Number : 11123064

Received **Tested** Diagnosed

: 11 Jul 2024 : 12 Jul 2024 : 14 Jul 2024 - Don Baldridge

IAA - INSURANCE AUTO AUCTIONS - METRO DC 14149 BRANDYWINE RD BRANDYWINE, MD

US 20613 Contact:

Test Package : CONST (Additional Tests: TBN) Certificate 12367

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)

Report Id: INSBRAMD [WUSCAR] 06234230 (Generated: 07/16/2024 15:24:33) Rev: 1

Submitted By: Emylio Pineda

T:

F: