

OIL ANALYSIS REPORT

Area SEAGATE TERMINALS

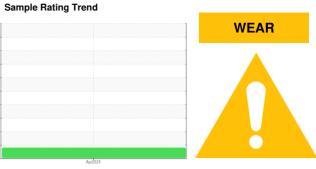


Component

Diesel Engine

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

VOLVO L120H 633354



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil

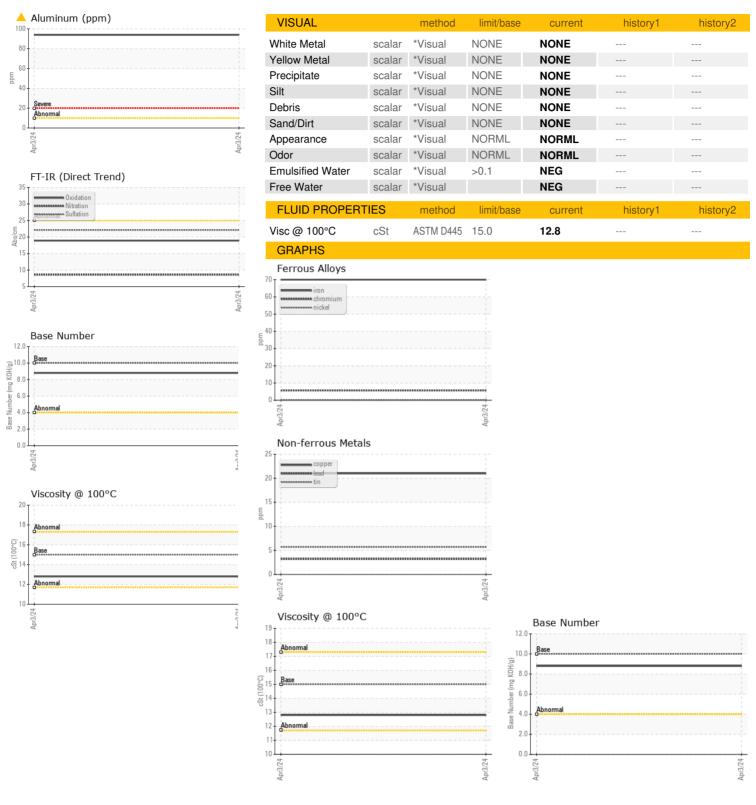
Fluid Condition

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	ΜΑΤΙΩΝΙ	method	limit/base	current	history1	history2
	VIATION		IIIIIIVDase			
Sample Number		Client Info		ML0000712		
Sample Date		Client Info		03 Apr 2024		
Machine Age	hrs	Client Info		754		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		WC Method	>6.0	<1.0		
Nater		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	70		
Chromium	ppm	ASTM D5185m	>10	6		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	1		
Aluminum	ppm	ASTM D5185m	>10	<u></u> 94		
_ead	ppm	ASTM D5185m	>20	3		
Copper	ppm	ASTM D5185m	>15	21		
Γin	ppm	ASTM D5185m	>10	6		
√anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	30		
Barium	ppm	ASTM D5185m	0.0	8		
Molybdenum	ppm	ASTM D5185m	0.7	47		
Manganese	ppm	ASTM D5185m	0.0	2		
Magnesium	ppm	ASTM D5185m	256	653		
Calcium	ppm	ASTM D5185m	2057	1419		
Phosphorus	ppm	ASTM D5185m	935	952		
Zinc	ppm	ASTM D5185m	1223	1076		
Sulfur	ppm	ASTM D5185m	4079	3360		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	18		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	8.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	A1 / 4	*AOTM D7444	05	10.0		
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9		



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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ML0000712 Lab Number : 06151502 Unique Number : 10981580

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Tested : 18 Apr 2024 Diagnosed

Received

: 19 Apr 2024 - Don Baldridge

: 17 Apr 2024

US 23323 Contact: TOMMY GRIFFIN tgriffin@mcclung-logan.com T: (757)485-3314

4112 HOLLAND BLVD

CHESAPEAKE, VA

MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE

* - 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)

F: (757)485-3415 Contact/Location: TOMMY GRIFFIN - VOLVO0264