

OIL ANALYSIS REPORT

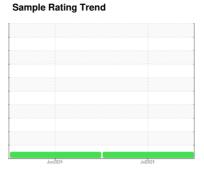


{UNASSIGNED}

FREIGHTLINER M2 106 02-012 (S/N 1FVACWDT0GHHK1277)

Diesel Engine

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

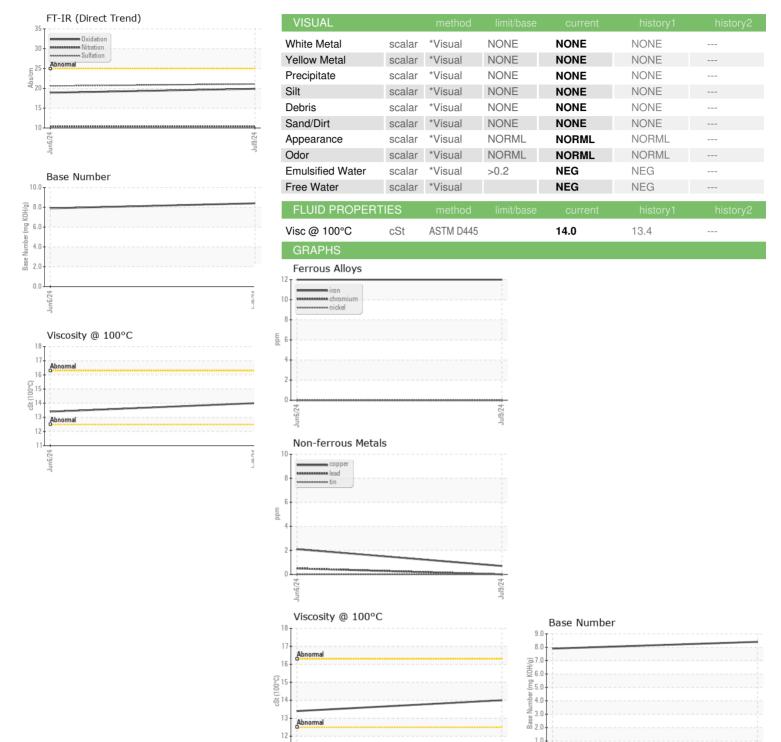
Fluid Condition

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002676	ML0001905	
Sample Date		Client Info		09 Jul 2024	06 Jun 2024	
Machine Age	mls	Client Info		192693	184641	
Oil Age	mls	Client Info		5159	5000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	12	12	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	3	3	
Lead	ppm	ASTM D5185m	>30	0	<1	
Copper	ppm	ASTM D5185m	>150	<1	2	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		22	42	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		47	56	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		756	766	
Calcium	ppm	ASTM D5185m		1299	1315	
Phosphorus	ppm	ASTM D5185m		789	778	
Zinc	ppm	ASTM D5185m		904	932	
Sulfur	ppm	ASTM D5185m		2695	2762	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	5	
Sodium	ppm	ASTM D5185m		4	3	
Potassium	ppm	ASTM D5185m	>20	2	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.6	
Canadon						
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	ATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 19.9	history1 18.9	history2



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Laboratory Sample No.

: ML0002676 Lab Number : 06235661 Unique Number : 11124495

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 15 Jul 2024 Diagnosed

: 16 Jul 2024 : 16 Jul 2024 - Don Baldridge

0.0

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND 1345 MOUNTAIN ROAD GLEN ALLEN, VA

aanderson@mcclung-logan.com

US 23060 Contact: Alex Anderson

Test Package : CONST (Additional Tests: TBN) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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: (804)266-1611

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