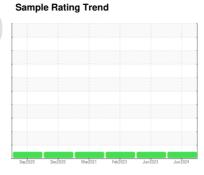


OIL ANALYSIS REPORT





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





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

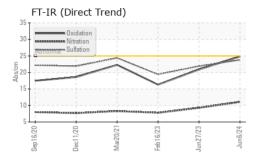
Fluid Condition

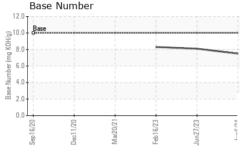
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

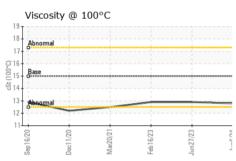
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0002954	VCP408309	VCP385669
Sample Date		Client Info		06 Jun 2024	27 Jun 2023	16 Feb 2023
Machine Age	hrs	Client Info		11752	9638	8806
Oil Age	hrs	Client Info		0	1000	689
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	6	5	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	0	0
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>20	2	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.5	25	14	12
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.7	42	49	50
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	256	565	704	716
Calcium	ppm	ASTM D5185m	2057	1877	1398	1361
Phosphorus	ppm	ASTM D5185m	935	978	962	879
Zinc	ppm	ASTM D5185m	1223	1254	1201	1124
Sulfur	ppm	ASTM D5185m	4079	3334	3018	3210
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	3	4
Sodium	ppm	ASTM D5185m		3	<1	1
Potassium	ppm	ASTM D5185m	>20	3	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.3	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	21.9	19.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.8	20.9	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.5	8.1	8.3

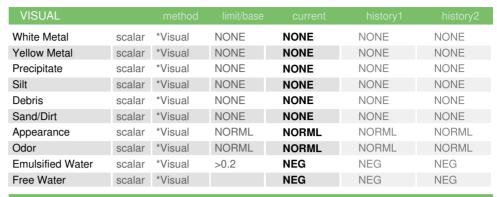


OIL ANALYSIS REPORT

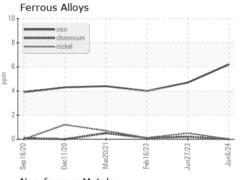


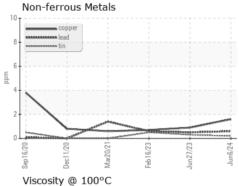


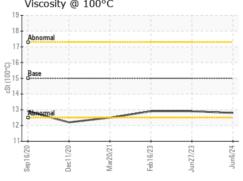


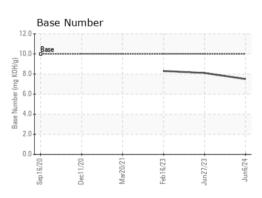


FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.0	12.8	12.9	12.9













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: ML0002954 Lab Number : 06220486 Unique Number : 11098683

Received **Tested** Diagnosed

: 25 Jun 2024 : 26 Jun 2024

: 27 Jun 2024 - Don Baldridge

MCCLUNG-LOGAN EQUIPMENT CO - CHESAPEAKE 4112 HOLLAND BLVD CHESAPEAKE, VA US 23323

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

Test Package : CONST (Additional Tests: TBN) 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: (757)485-3415

Report Id: VOLVO0264 [WUSCAR] 06220486 (Generated: 06/27/2024 23:44:33) Rev: 1

Contact/Location: TOMMY GRIFFIN - VOLVO0264