



Machine Id Wachine Id VOLVO EC480EL 314822

Component Diesel Engine

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

				/	<u> </u>		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No	Sample Number		Client Info		VCP430171	VCP424527	VCP409288
corrective action is recommended at this time. Resample at the next	Sample Date		Client Info		15 Nov 2023	17 Jul 2023	11 Feb 2023
service interval to monitor.	Machine Age	hrs	Client Info		3115	2382	1668
	Oil Age	hrs	Client Info		0	500	500
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	ABNORMAL
				100	•	0	~
WEAR All component wear rates are normal.	Iron Chromium	ppm	ASTM D5185m ASTM D5185m		9 <1	8 <1	7 <1
	Nickel	ppm	ASTM D5185m		1	2	<1
	Titanium	ppm	ASTM D5185m	>10	، <1	0	0
	Silver	ppm	ASTM D5185m	. 2	0	0	0
	Aluminum	ppm ppm	ASTM D5185m		1	1	<1
	Lead		ASTM D5185m		1	0	2
	Copper	ppm	ASTM D5185m		8	0	∠ ▲ 40
	Tin	ppm	ASTM D5185m		1	<1	1
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai			NONL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	12	13	10
	Potassium	ppm	ASTM D5185m	>20	1	0	0
There is no indication of any contamination in the oil.	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
	Soot %	%	*ASTM D7844	>3	0.6	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.3	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.1	22.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
					•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0.5	0	1	2
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		6	8	8
	Barium	ppm	ASTM D5185m		<1	<1	0
	Molybdenum	ppm	ASTM D5185m		51	55	51
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		491	541	459
	Calcium	ppm	ASTM D5185m	2057	1629	1868	1665
	Phosphorus	ppm	ASTM D5185m		961	1021	890
	Zinc	ppm	ASTM D5185m		1130	1276	1136
	Sulfur	ppm	ASTM D5185m		3074	3606	3161
	Oxidation	Abs/.1mm	*ASTM D7414		19.2	18.7	20.0

Base Number (BN) mg KOH/g ASTM D2896 10

ASTM D445 15.0

Visc @ 100°C cSt

8.1

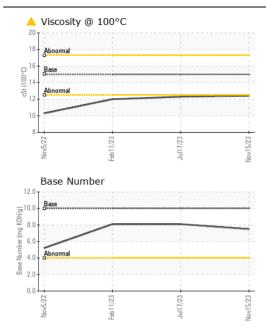
12.3

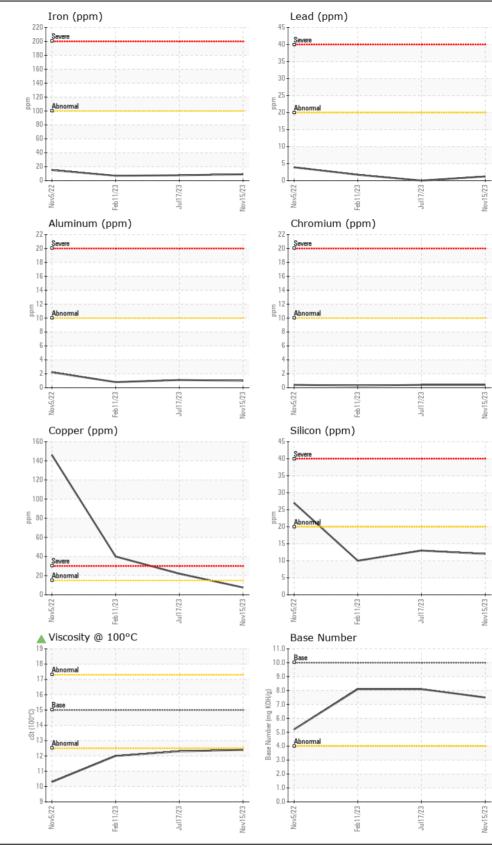
7.5

12.4

8.1

12.0





ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP430171 Received 8418 PALM RIVER ROAD :08 Feb 2024 Lab Number : 06083330 Tested TAMPA, FL :08 Feb 2024 Unique Number : 10870775 : 09 Feb 2024 - Don Baldridge US 33619 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: KENNY HANEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. khaney@flaglerce.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (813)630-0077 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (813)630-2233

Contact/Location: KENNY HANEY - VOLVO0093