

OIL ANALYSIS REPORT

Sample Rating Trend





VOLVO 12815 Component

Diesel Engine

SHELL ROTELLA T4 15W4

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 10.1

5W40 (37 QTS)						
SAMPLE INFORM	ΙΑΤΙΟΝ	method	itmit/base	Oct2020 Apr2021 Dec2021 Jul20	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	mls mls	Client Info Client Info Client Info Client Info Client Info		WC0836899 26 Sep 2023 396400 24110 Changed NORMAL	WC0692803 21 Jul 2022 349360 25510 Changed NORMAL	WC0617683 01 Dec 2021 301794 27674 Changed NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel Glycol		WC Method WC Method	>6.0	<1.0 NEG	<1.0 NEG	<1.0 NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Antimony Vanadium Cadmium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Ziac	ppm ppm ppm	ASTM D5185m ASTM D5185m	>2 >25 >40 >330	17 <1 0 <1 2 4 <1 <1 0 <u>current</u> 63 0 64 <1 322 1558 956 1120	16 <1 <1 2 2 3 1 1 0 0 0 history1 15 0 9 <1 72 2159 858 1002	17 <1 <1 4 2 5 <1 0 <1 0 <1 0 history2 3 0 3 <1 40 2320 885 972
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		1180 3254	1093 3809	978 2966
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	4 7 2 current	4 7 3 history1	3 14 4 history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>30	0.5 9.1 23.2	0.5 10.2 26.5	0.5 8.3 23
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

DIAGN	DSIS
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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 suitable for further service.

18.3

5.6

17.0

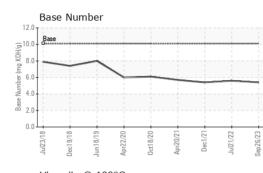
5.4

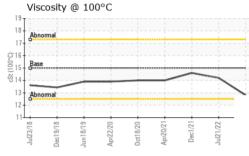
13.6

5.4

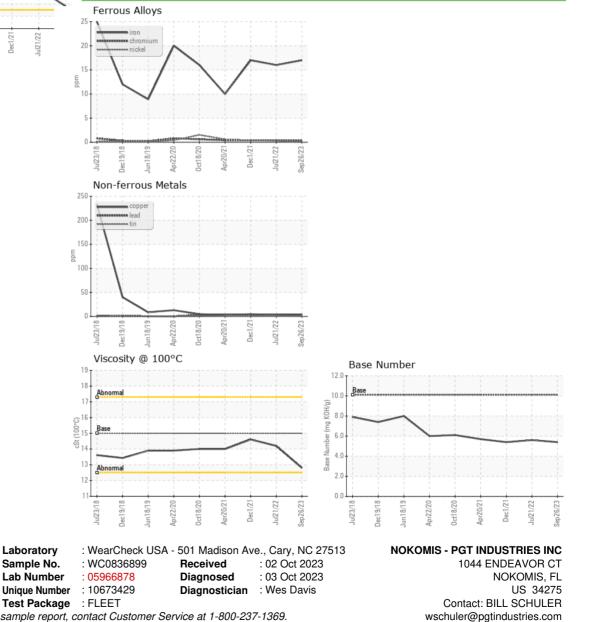


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15	12.8	14.2	14.6
GRAPHS						



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)

Certificate L2367

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Contact/Location: BILL SCHULER - PGTNOK

T: (800)282-6019

F: (941)484-1833