



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL			
Copper	ppm	ASTM D5185m	>330	<u> </u>	A 329	A 341		

Customer Id: SEAOKL Sample No.: WC0881844 Lab Number: 06029902 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS





No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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view report



05 Sep 2023 Diag: Don Baldridge

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Report Id: SEAOKL [WUSCAR] 06029902 (Generated: 12/12/2023 15:46:01) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend



Area ARIZONA Machine Id VOLVO 4903

Component Diesel Engine Fluid

NAPA Motor Oil 15W40 (--- QTS)

SAMPLE INFORM	ATION	method	limit/base	current	historv1	historv2
Sample Number		Client Info		WC0881844	WC0881836	WC0857170
Sample Date		Client Info		05 Dec 2023	15 Nov 2023	09 Oct 2023
Machine Age	hrs	Client Info		2275	2176	1976
Oil Age	hrs	Client Info		1459	1360	1160
Oil Changed	1110	Client Info		Not Change	Not Change	Not Change
Sample Status						
				ABRONIMAE	ABIOITIMAE	ADNOTIVIAL
CONTAMINATIO	N	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	>100	75	71	65
Chromium	maa	ASTM D5185m	>20	1	1	1
Nickel	maa	ASTM D5185m	>2	6	6	6
Titanium	mag	ASTM D5185m		0	<1	<1
Silver	maa	ASTM D5185m	>2	0	0	<1
Aluminum	mag	ASTM D5185m	>25	8	8	8
Lead	maa	ASTM D5185m	>40	3	8	7
Copper	maa	ASTM D5185m	>330	314	A 329	3 41
Tin	ppm	ASTM D5185m	>15	4	4	4
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		25	22	39
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		44	37	39
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		632	618	670
Calcium	ppm	ASTM D5185m		1518	1450	1407
Phosphorus	ppm	ASTM D5185m		778	697	710
Zinc	ppm	ASTM D5185m		966	872	870
Sulfur	ppm	ASTM D5185m		2368	2307	2343
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	15	18
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	16	15	18
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	22.9	21.2
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	19.6	18.3

Base Number (BN) mg KOH/g ASTM D2896

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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.

5.8

5.8

5.7



0ct8/22

Dec2/22

OIL ANALYSIS REPORT





Apr12/23

Feb 5/23

Aug2/23

Jun 13/23

0ct9/23

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
FI UID PROPERT	IFS	method	limit/base	current	history1	history2
	120					inotory 2
Visc @ 100°C	cSt	ASTM D445		13.0	12.8	12.8
GRAPHS						



Non-ferrous Metals

450

400 350





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