

OIL ANALYSIS REPORT

Sample Rating Trend





Area ARIZONA Machine to VOLVO 4886

Component Diesel Engine Fluid

NAPA Motor Oil 15W40 (--- QTS)

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0935454	WC0935444	WC0899588
Sample Date		Client Info		11 Jun 2024	04 May 2024	10 Apr 2024
Machine Age	hrs	Client Info		3183	2924	2744
Oil Age	hrs	Client Info		2613	2354	2174
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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	77	83	73
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>2	7	8	8
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>25	4	5	5
Lead	ppm	ASTM D5185m	>40	4	5	5
Copper	ppm	ASTM D5185m	>330	81	100	97
Tin	ppm	ASTM D5185m	>15	4	4	4
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	22	18
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		18	22	22
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		514	438	438
Calcium	ppm	ASTM D5185m		1750	1786	1811
Phosphorus	ppm	ASTM D5185m		906	936	919
Zinc	ppm	ASTM D5185m		1089	1104	1144
Sulfur	ppm	ASTM D5185m		3169	2907	3238
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	8
Sodium	ppm	ASTM D5185m		5	4	4
Potassium	ppm	ASTM D5185m	>20	13	15	13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.0	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	24.4	24.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
		*ASTM D7414		21.1	21.6	21.8

Base Number (BN) mg KOH/g ASTM D2896

DIAGNOSIS Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

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.

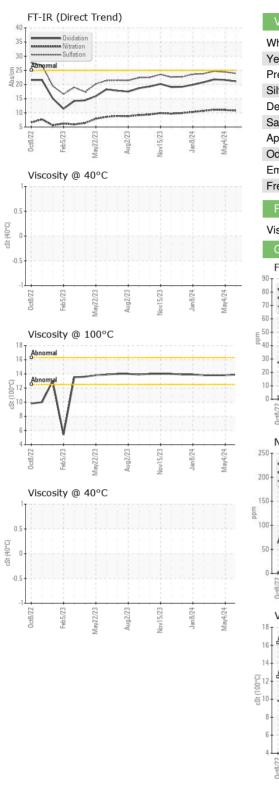
4.7

5.0

5.1

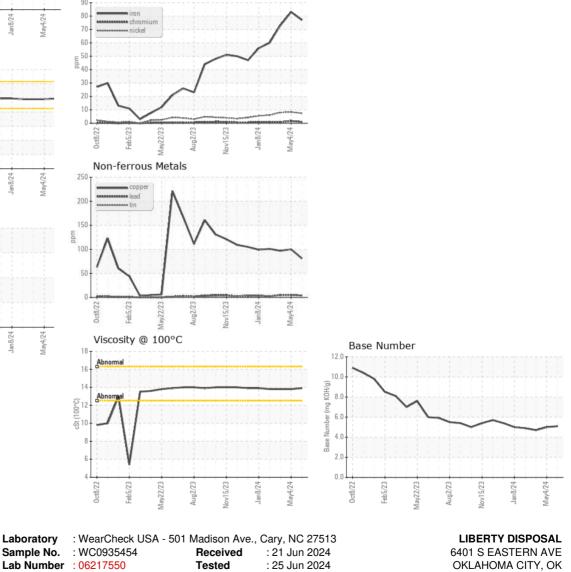


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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		method	limit/base	current	history1	history2
		methou	iiiiii/base	Current	TIIStOTYT	TIIStOLYZ
Visc @ 100°C	cSt	ASTM D445		13.9	13.8	13.8
GRAPHS						

Ferrous Alloys



: 25 Jun 2024 - Sean Felton

Diagnosed

OKLAHOMA CITY, OK US 73149 Contact: CATHY ROSA c.rosa@ldi89.com T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: SEAOKL [WUSCAR] 06217550 (Generated: 06/25/2024 12:48:02) Rev: 2

Certificate 12367

Unique Number : 11090414

Test Package : FLEET (Additional Tests: KV40)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: CATHY ROSA - SEAOKL