

OIL ANALYSIS REPORT



ARIZONA **VOLVO 4902** Component **Diesel Engine**

NAPA Motor Oil 15W40 (--- QTS)

Sample Rating Trend

NORMAL



DIAGNOSIS

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

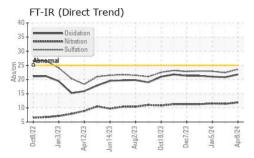
Fluid Condition

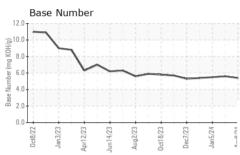
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

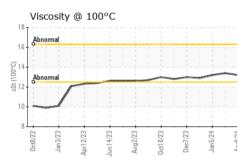
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0899586	WC0899582	WC0892129
Sample Date		Client Info		08 Apr 2024	02 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		2655	2394	2219
Oil Age	hrs	Client Info		2224	1963	1788
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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	92	74	79
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>2	6	4	5
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>25	6	6	6
Lead	ppm	ASTM D5185m	>40	5	3	5
Copper	ppm	ASTM D5185m	>330	154	161	187
Tin	ppm	ASTM D5185m	>15	5	4	4
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	24	23
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		37	37	44
Manganese	ppm	ASTM D5185m		3	3	3
Magnesium	ppm	ASTM D5185m		738	694	695
Calcium	ppm	ASTM D5185m		1477	1402	1435
Phosphorus	ppm	ASTM D5185m		810	755	820
Zinc	ppm	ASTM D5185m		974	903	973
Sulfur	ppm	ASTM D5185m		2974	2277	2506
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	14	18
Sodium	ppm	ASTM D5185m		5	<1	4
Potassium	ppm	ASTM D5185m	>20	15	11	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.9	11.4	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	22.4	22.9
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
0.11.11	Aha/1mm	*ASTM D7414	>25	01.0	20.8	21.0
()xidation				71.0		
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	ASTM D2896	725	21.8 5.4	5.6	5.5

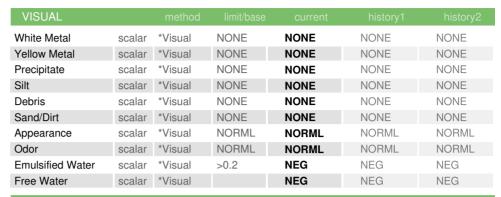


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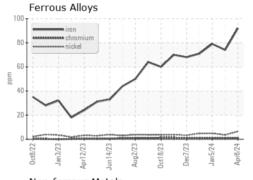


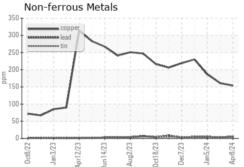


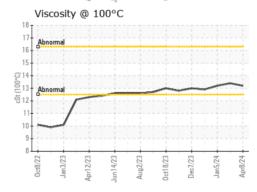


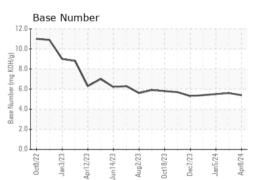
FLUID PROPER	HES	method		history1	history2
Visc @ 100°C	cSt	ASTM D445	13.2	13.4	13.2

GRAPHS













Certificate 12367

Sample No.

Lab Number : 06146391 Unique Number : 10976469

: WC0899586 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024 **Tested** : 12 Apr 2024

Diagnosed : 15 Apr 2024 - Don Baldridge

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)

LIBERTY DISPOSAL

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