

OIL ANALYSIS REPORT

ARIZONA GROUPING 8477

Component

Diesel Engine

NAPA 15W40 (--- GAL)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

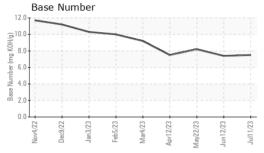
Fluid Condition

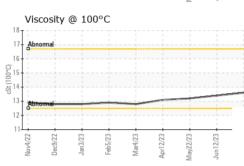
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0820342	WC0825482	WC0810676
Sample Date		Client Info		11 Jul 2023	12 Jun 2023	22 May 2023
Machine Age	hrs	Client Info		922	809	0
Oil Age	hrs	Client Info		922	809	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	110	101	82
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>4	0	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	8	6
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	24	25	22
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		48	45	49
Barium	ppm	ASTM D5185m		6	7	2
Molybdenum	ppm	ASTM D5185m		44	44	42
Manganese	ppm	ASTM D5185m		8	8	8
Magnesium	ppm	ASTM D5185m		579	524	562
Calcium	ppm	ASTM D5185m		1741	1648	1677
Phosphorus	ppm	ASTM D5185m		730	688	719
Zinc	ppm	ASTM D5185m		931	909	904
Sulfur	ppm	ASTM D5185m		2602	2412	2643
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	32	32	32
Sodium	ppm	ASTM D5185m		7	5	6
Potassium	ppm	ASTM D5185m	>20	10	11	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	12.3	11.2	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	24.8	24.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.4	26.9	24.7
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Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.4	8.2



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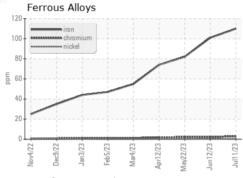


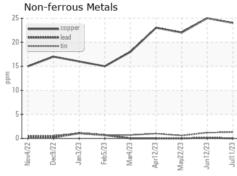


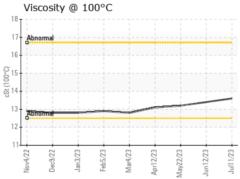
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

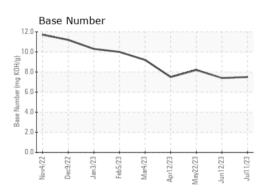
FLUID PROPER	HES	method		history1	history2
Visc @ 100°C	cSt	ASTM D445	13.6	13.4	13.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10566149 Test Package : FLEET

: WC0820342 : 05904793

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jul 2023 Diagnosed Diagnostician : Don Baldridge

: 25 Jul 2023

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)

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