

## **OIL ANALYSIS REPORT**

### Area **ARIZONA GROUPING** 2015 MACK 2696

**Diesel Engine** Fluic NAPA Motor Oil 15W40 (9 GAL)

#### DIAGNOSIS

#### 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.

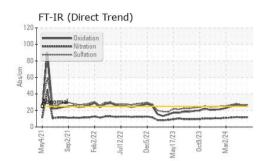
NORMAL

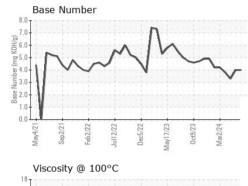
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0910152	WC0935456	WC0899589		
Sample Date		Client Info		03 Jul 2024	14 Jun 2024	04 May 2024		
Machine Age	hrs	Client Info		18058	17952	17768		
Oil Age	hrs	Client Info		2367	2261	2077		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<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	>120	33	34	35		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>5	<1	2	2		
Titanium	ppm	ASTM D5185m	>2	0	<1	<1		
Silver	ppm	ASTM D5185m	>2	0	<1	0		
Aluminum	ppm	ASTM D5185m	>20	5	6	6		
Lead	ppm	ASTM D5185m	>40	2	3	4		
Copper	ppm	ASTM D5185m	>330	4	6	7		
Tin	ppm	ASTM D5185m	>15	<1	2	2		
Vanadium	ppm	ASTM D5185m		0	<1	<1		
Cadmium	ppm	ASTM D5185m		0	<1	<1		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		23	27	27		
Barium	ppm	ASTM D5185m		0	<1	0		
Molybdenum	ppm	ASTM D5185m		12	16	17		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m		637	643	633		
Calcium	ppm	ASTM D5185m		1483	1354	1419		
Phosphorus	ppm	ASTM D5185m		767	787	836		
Zinc	ppm	ASTM D5185m		855	875	928		
Sulfur	ppm	ASTM D5185m		3050	2841	2982		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	8	9	9		
Sodium	ppm	ASTM D5185m		24	23	23		
Potassium	ppm	ASTM D5185m	>20	3	6	6		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.7	0.6	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	11.8	11.7	12.0		

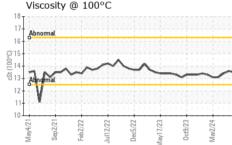
Sample Rating Trend



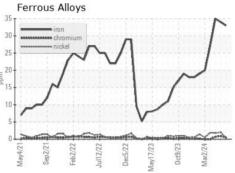
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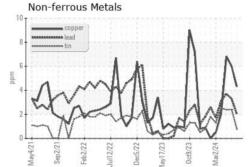


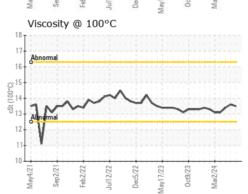




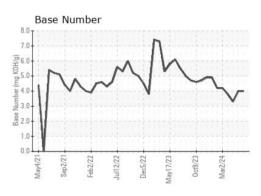
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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		13.5	13.6	13.4
GRAPHS						







: WearCheck USA - 501 Madison Ave., Cary, NC 27513



#### LIBERTY DISPOSAL

6401 S EASTERN AVE OKLAHOMA CITY, OK US 73149 Contact: M Rutherford M.Rutherford@ldi89.com T: F:

Laboratory Certificate 12367 

Sample No. : WC0910152 Received : 11 Jul 2024 Lab Number : 06234296 Tested : 12 Jul 2024 Unique Number : 11123130 Diagnosed : 14 Jul 2024 - Don Baldridge Test Package : FLEET 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)

Report Id: SEAOKL [WUSCAR] 06234296 (Generated: 07/14/2024 12:08:02) Rev: 1

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