

OIL ANALYSIS REPORT

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Area ARIZONA Machine Io 2015 KENWORTH 5831

Diesel Engine Fluid NAPA Motor Oil 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

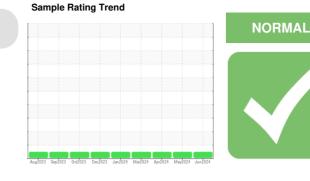
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

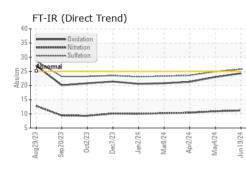
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

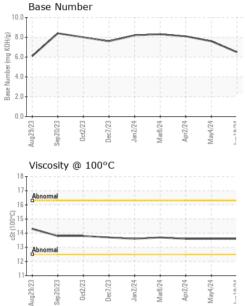


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0935453	WC0935449	WC0899583
Sample Date		Client Info		19 Jun 2024	04 May 2024	02 Apr 2024
Machine Age	hrs	Client Info		0	16751	16627
Oil Age	hrs	Client Info		0	124	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	40	18	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	- 1	<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	2	2
Lead	ppm	ASTM D5185m	>40	7	5	4
Copper	ppm	ASTM D5185m	>330	2	6	0
Tin	ppm	ASTM D5185m	>15	1	2	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		46	52	37
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		38	47	42
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		567	527	522
Calcium	ppm	ASTM D5185m		1609	1633	1660
Phosphorus	ppm	ASTM D5185m		1037	1113	1062
Zinc	ppm	ASTM D5185m		1245	1288	1336
Sulfur	ppm	ASTM D5185m		4062	3352	3762
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23	5	4
Sodium	ppm	ASTM D5185m		6	5	4
Potassium	ppm	ASTM D5185m	>20	6	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.9	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	24.9	23.6
			11 1. 0			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	TION Abs/.1mm	method *ASTM D7414	limit/base	current 24.3	history1 23.0	history2 21.3

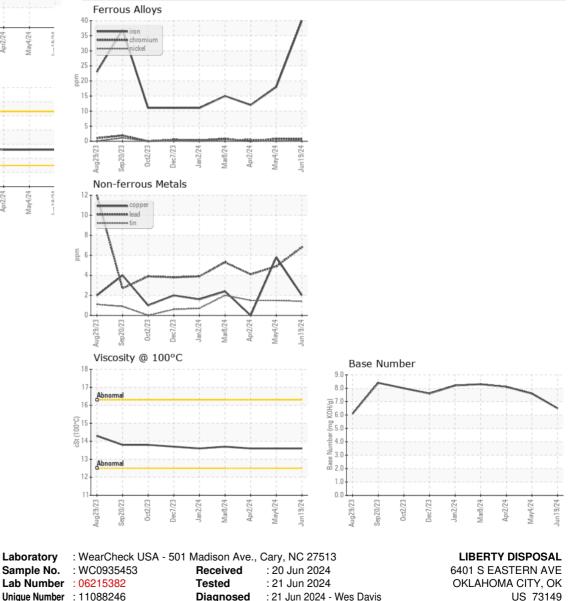


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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		13.6	13.6	13.6





Unique Number : 11088246 Diagnosed : 21 Jun 2024 - Wes Davis Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. M.Rutherford@ldi89.com * - 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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Contact/Location: M Rutherford - SEAOKL

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