

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 3001354294 - N+E CAROLINAS

Diesel Engine

CAM2 MAGUM SUPER HD 15W40 (48 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

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.

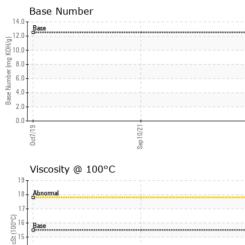
)		Oct	2019	Sep2021 Oct20	123	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0637080	WC0512137	WCM1396200
Sample Date		Client Info		31 Oct 2023	10 Sep 2021	07 Oct 2019
Machine Age	hrs	Client Info		112	31	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	۷	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	<1	3	19
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	<1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	11
Copper	ppm	ASTM D5185m	>330	5	3	26
Tin	ppm	ASTM D5185m	>15	0	0	2
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	108	20
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		51	3	45
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		927	654	669
Calcium	ppm	ASTM D5185m		1101	1552	1613
Phosphorus	ppm	ASTM D5185m		1018	1007	876
Zinc	ppm	ASTM D5185m		1279	1079	1038
Sulfur	ppm	ASTM D5185m		3330	5280	3130
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	11
Sodium	ppm	ASTM D5185m		1	8	7
Potassium	ppm	ASTM D5185m	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.1	5.9	4.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	19.1	14
					biotomut	history2
FLUID DEGRADA	TION	method	limit/base	current	history1	TIIStoryz
FLUID DEGRADA	Abs/.1mm	*ASTM D7414	>25	13.0	13	8.9



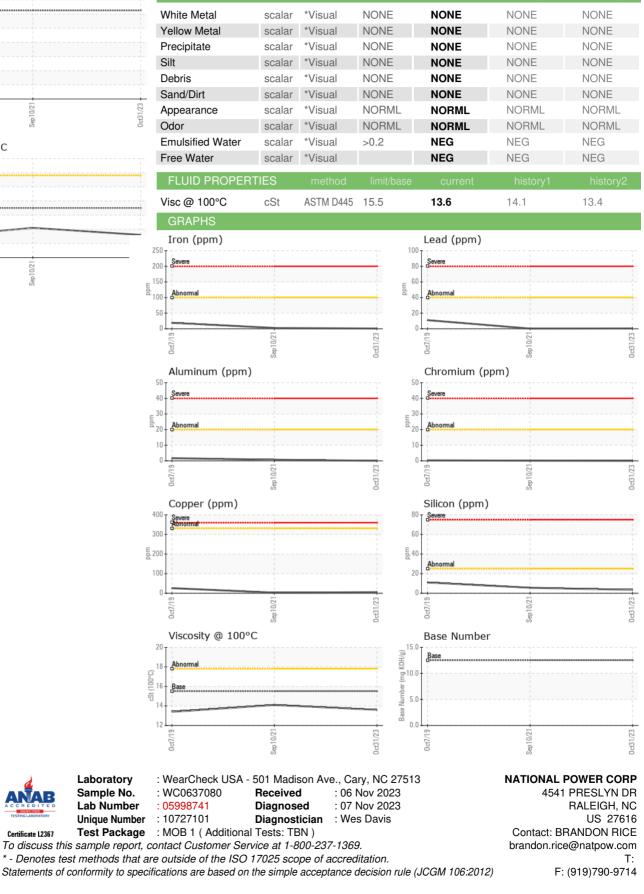
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Sep 10/21



Certificate L2367

Contact/Location: BRANDON RICE - NATRAL