

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

CHANDLER PARK - G020397330

Diesel Engine

NAPA Motor Oil 15W40 (--- 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 acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894382	WC0771555	WC0637060
Sample Date		Client Info		21 Feb 2024	06 Feb 2023	08 Feb 2022
Machine Age	hrs	Client Info		986	956	923
Oil Age	hrs	Client Info		23	23	21
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	2 .9	4 .5
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	1	3	5
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	<1	3	6
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
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		9	83	45
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		10	42	61
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		31	392	828
Calcium	ppm	ASTM D5185m		2216	1579	1219
Phosphorus	ppm	ASTM D5185m		904	792	884
Zinc	ppm	ASTM D5185m		1028	971	1092
Sulfur	ppm	ASTM D5185m		3709	3248	2633
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		<1	3	3
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.7	8.1	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.3	19.1	21.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.5	15.4	18.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	8.1	9.9
1/46-58) Bev: 1 Contact/Location: BBANDON BICE - NATBAI						

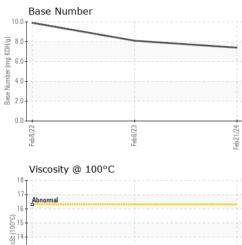
Contact/Location: BRANDON RICE - NATRAL



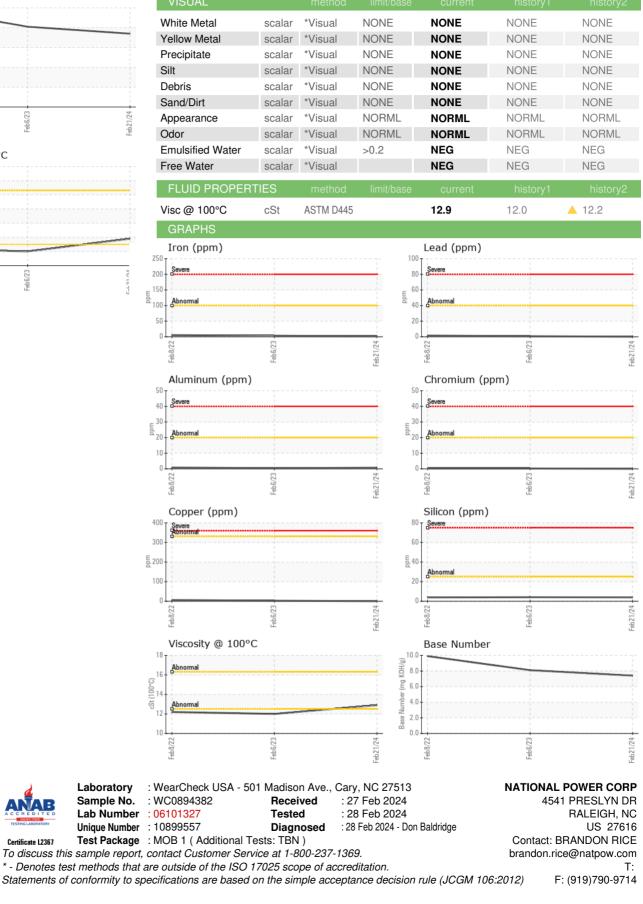
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OIL ANALYSIS REPORT



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Contact/Location: BRANDON RICE - NATRAL