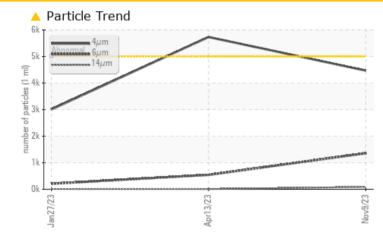


# KD-1 GAS NOX

Pump Fluid SAE 5W40 (--- GAL)

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	ATTENTION	NORMAL				
Particles >6µm	ASTM D7647	>1300	🔺 1357	543	208				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>  19/18/14</b>	🔺 20/16/10	19/15/11				

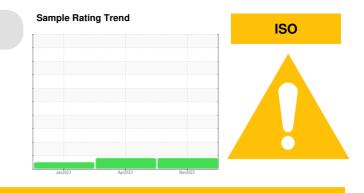
Customer Id: NRGDOV Sample No.: USP255351 Lab Number: 06006377 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 13 Apr 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 27 Jan 2023 Diag: Doug Bogart



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO



Component Pump Fluid

Machine Id

## SAE 5W40 (--- GAL)

## DIAGNOSIS

## A Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

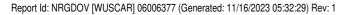
## Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

## Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP255351	USP249787	USP246504
Sample Date		Client Info		09 Nov 2023	13 Apr 2023	27 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	<1	1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	1	<1	<1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>9	0	0	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		113	153	159
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		39	44	47
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		902	920	865
Calcium	ppm	ASTM D5185m		965	972	968
Phosphorus	ppm	ASTM D5185m		1031	1041	1076
Zinc	ppm	ASTM D5185m		1240	1287	1217
Sulfur	ppm	ASTM D5185m		3180	3427	2790
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	2	5	4
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>.1	0.046	0.023	0.030
ppm Water	ppm	ASTM D6304	>1000	462.2	238.8	303.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4469	▲ 5734	3007
Particles >6µm		ASTM D7647	>1300	🔺 1357	543	208
Particles >14µm		ASTM D7647	>160	87	9	11
Particles >21µm		ASTM D7647	>40	22	2	3
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 19/18/14	▲ 20/16/10	19/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.562	1.49	1.56



Contact/Location: ERNIE JUST - NRGDOV



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1000

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41

## **OIL ANALYSIS REPORT**

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method

ASTM D445

method

limit/base

NONE

NONE

NONE

NONE

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NONE

NORML

NORML

limit/base

>.1

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

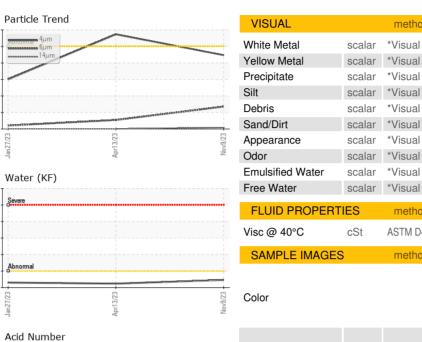
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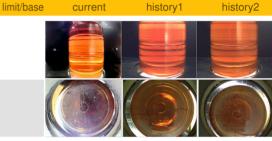
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64.6





history1

NONE

NONE

NONE

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68.8

history

history2

NONE

NONE

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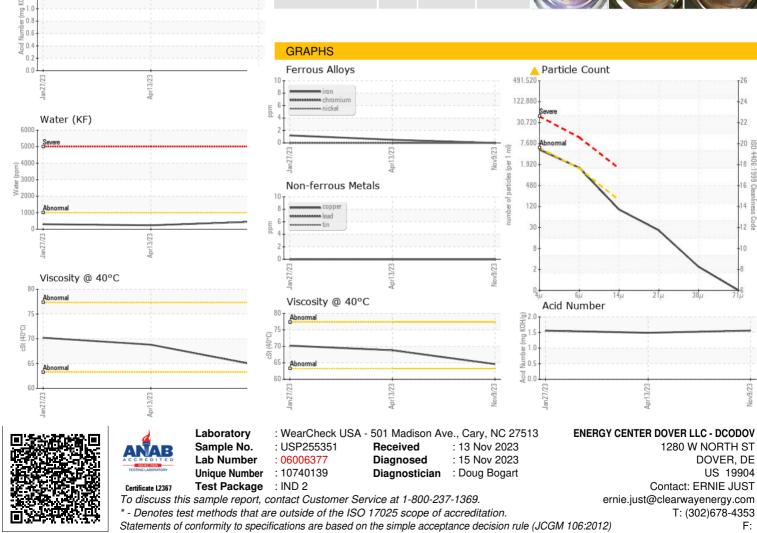
history2

NEG

NEG

70.2

Bottom



Contact/Location: ERNIE JUST - NRGDOV