

PROBLEM SUMMARY

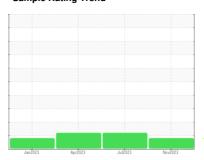
Sample Rating Trend



KD-2 GAS NOX

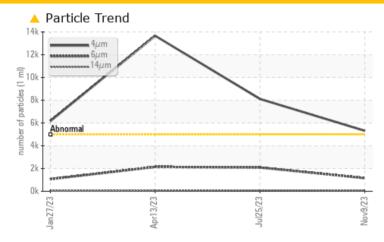
Component Pump Fluid

SAE 5W40 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	ATTENTION	ABNORMAL				
Particles >4µm	ASTM D7647	>5000	<u></u> 5317	<u>▲</u> 8112	▲ 13661				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/17/13	20/18/14	2 1/18/13				

Customer Id: NRGDOV Sample No.: USP249794 Lab Number: 06006381 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 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

25 Jul 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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.



13 Apr 2023 Diag: Doug Bogart

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 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

ISO



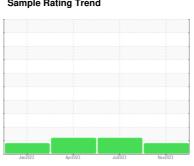
Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





KD-2 GAS NOX Component

Pump Fluid

SAE 5W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

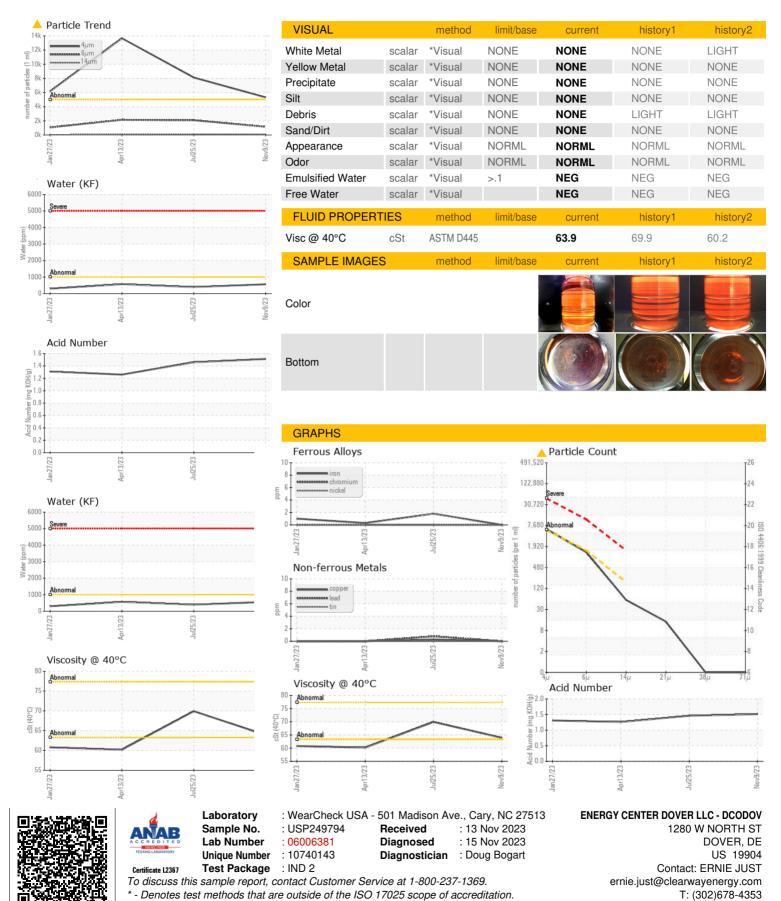
Fluid Condition

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

		Jan202	3 Apr2023	Jui2023 N	Jui2023 Nov2023			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USP249794	USP255479	USP249803		
Sample Date		Client Info		09 Nov 2023	25 Jul 2023	13 Apr 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	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	0	2	<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	2	<1		
Lead	ppm	ASTM D5185m	>12	0	<1	0		
Copper	ppm	ASTM D5185m	>30	0	<1	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		124	124	152		
Barium	ppm	ASTM D5185m		0	2	0		
Molybdenum	ppm	ASTM D5185m		41	46	46		
Manganese	ppm	ASTM D5185m		0	0	<1		
Magnesium	ppm	ASTM D5185m		931	842	927		
Calcium	ppm	ASTM D5185m		996	966	1024		
Phosphorus	ppm	ASTM D5185m		1058	1044	1089		
Zinc	ppm	ASTM D5185m		1304	1200	1310		
Sulfur	ppm	ASTM D5185m		3323	3258	3483		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>60	2	2	2		
Sodium	ppm	ASTM D5185m		<1	0	0		
Potassium	ppm	ASTM D5185m	>20	0	2	1		
Water	%	ASTM D6304	>.1	0.056	0.039	0.056		
ppm Water	ppm	ASTM D6304	>1000	561.7	394.3	569.0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000	<u>\$5317</u>	<u>▲</u> 8112	<u>▲</u> 13661		
Particles >6µm		ASTM D7647	>1300	1159	▲ 2089	<u>^</u> 2143		
Particles >14µm		ASTM D7647	>160	50	81	62		
Particles >21µm		ASTM D7647		12	19	14		
Particles >38µm		ASTM D7647	>10	0	2	0		
Particles >71µm		ASTM D7647		0	1	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/13	<u>^</u> 20/18/14	<u>\$\text{\Delta}\$ 21/18/13</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		1.512	1.46	1.26		



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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