

PROBLEM SUMMARY

Sample Rating Trend

ISO

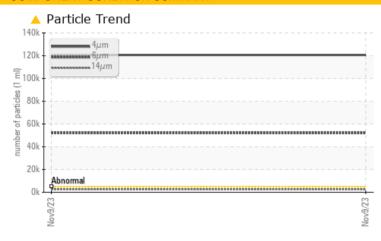


KD-1 LIQUID NOX

Component **Gearbox**

MOBIL SHC 630 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL						
Particles >4µm	ASTM D7647	>5000	<u> </u>						
Particles >6μm	ASTM D7647	>1300	<u>▲</u> 52134						
Particles >14μm	ASTM D7647	>160	<u>^</u> 2603						
Particles >21µm	ASTM D7647	>40	508						
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>4</u> 24/23/19						

Customer Id: NRGDOV Sample No.: USP255341 Lab Number: 06006384 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								
Action	Status	Date	Done By	Description				
Change Filter			?	We recommend you service the filters on this component if applicable.				

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Machine Id **KD-1 LIQUID NOX**

Component Gearbox

MOBIL SHC 630 (--- GAL)

Sample Rating Trend ISO

DIAGNOSIS

Recommendation

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.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

				Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP255341		
Sample Date		Client Info		09 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	3		
Chromium	ppm	ASTM D5185m	>15	0		
Nickel	ppm	ASTM D5185m	>15	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>100	0		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>25	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		10		
Phosphorus	ppm	ASTM D5185m		635		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		229		
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.2	0.003		
ppm Water	ppm	ASTM D6304	>2000	34.6		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	120632		
Particles >6µm		ASTM D7647	>1300	<u>\$2134</u>		
Particles >14μm		ASTM D7647	>160	2603		
Particles >21µm		ASTM D7647	>40	<u>▲</u> 508		
Particles >38μm		ASTM D7647	>10	8		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>4</u> 24/23/19		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49		



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: USP255341 : 06006384 : 10740146 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 13 Nov 2023 Received Diagnosed : 14 Nov 2023 Diagnostician : Doug Bogart

1280 W NORTH ST

DOVER, DE US 19904 Contact: ERNIE JUST

ernie.just@clearwayenergy.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

T: (302)678-4353 F:

Report Id: NRGDOV [WUSCAR] 06006384 (Generated: 11/16/2023 04:39:44) Rev: 1

Contact/Location: ERNIE JUST - NRGDOV