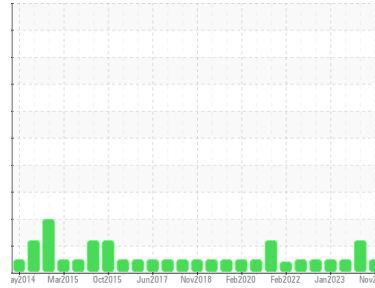




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id WEST COOLING TOWER FAN

Component
Gearbox
Fluid
MOBIL SHC 630 (15 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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USP255338	USP255476	USP249790
Sample Date	Client Info	09 Nov 2023	25 Jul 2023	13 Apr 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	0	<1	0
Chromium	ppm	ASTM D5185m >15	0	0	0
Nickel	ppm	ASTM D5185m >15	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	0	<1
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	0	0	0
Tin	ppm	ASTM D5185m >25	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	0	0	0
Barium	ppm	ASTM D5185m	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m	0	<1	19
Calcium	ppm	ASTM D5185m	0	<1	16
Phosphorus	ppm	ASTM D5185m	373	371	403
Zinc	ppm	ASTM D5185m	0	<1	5
Sulfur	ppm	ASTM D5185m	292	292	0

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	15	16	13
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	0	1	<1
Water	%	ASTM D6304 >0.2	0.003	0.006	0.003
ppm Water	ppm	ASTM D6304 >2000	38.5	68.7	31.6

FLUID CLEANLINESS

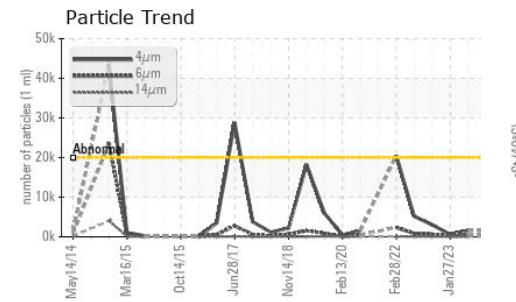
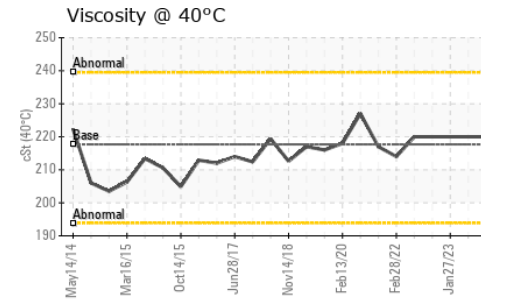
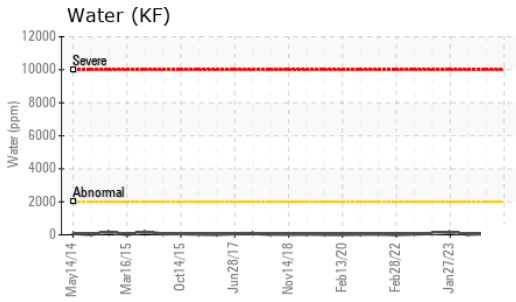
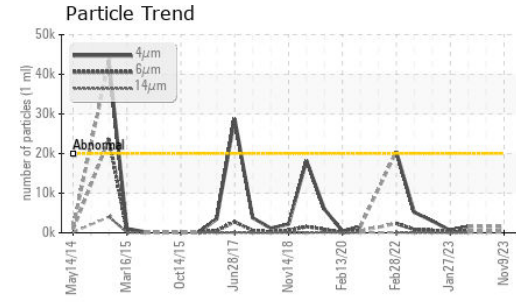
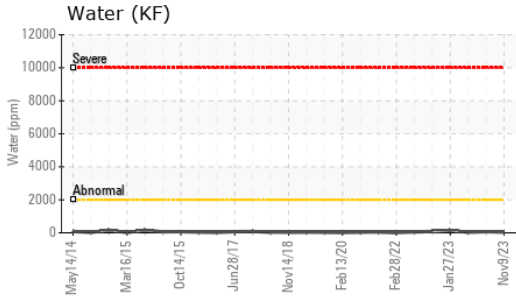
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	1549	---	1576
Particles >6µm	ASTM D7647 >5000	575	---	437
Particles >14µm	ASTM D7647 >640	77	---	25
Particles >21µm	ASTM D7647 >160	23	---	5
Particles >38µm	ASTM D7647 >40	1	---	0
Particles >71µm	ASTM D7647 >10	0	---	0
Oil Cleanliness	ISO 4406 (c) >21/19/16	18/16/13	---	18/16/12

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.44	0.47	0.45



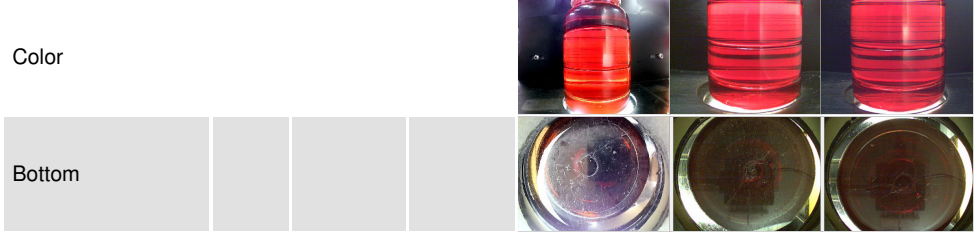
OIL ANALYSIS REPORT



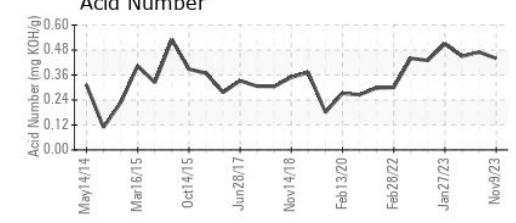
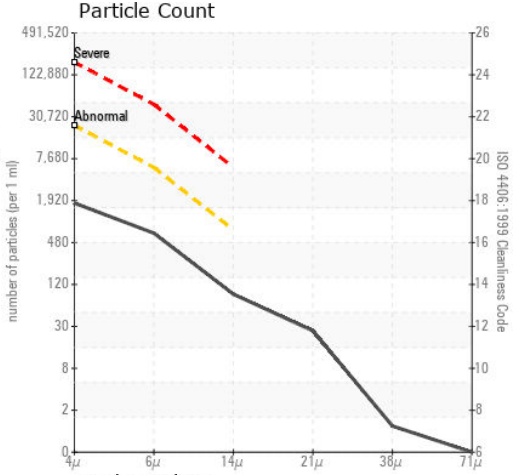
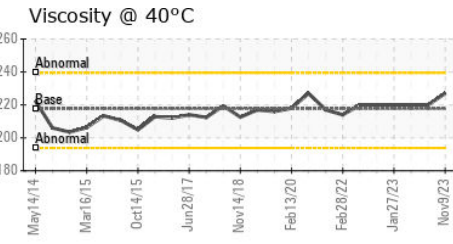
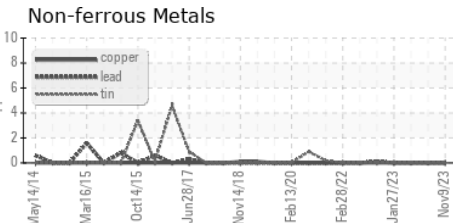
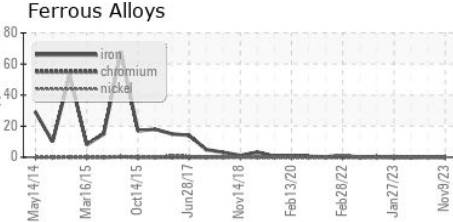
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	217.7	227	220	220

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP255338 **Received** : 13 Nov 2023
Lab Number : 06006374 **Diagnosed** : 14 Nov 2023
Unique Number : 10740136 **Diagnostician** : Doug Bogart
Test Package : IND 2

ENERGY CENTER DOVER LLC - DCODOV
 1280 W NORTH ST
 DOVER, DE
 US 19904
 Contact: ERNIE JUST
 ernie.just@clearwayenergy.com
 T: (302)678-4353
 F:

Certificate L2367
 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)