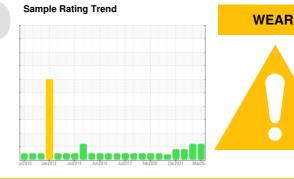


PROBLEM SUMMARY

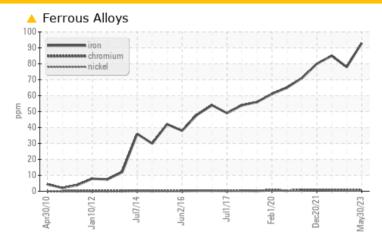
Ravenswood SP-24224 **T6 (S/N 36260)**Component

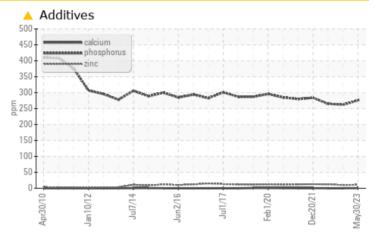
Wind Turbine Gearbox

MOBIL MOBILGEAR SHC XMP 320 (260 LTR)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185(m)	>75	<u> </u>	▲ 78	▲ 85		
Phosphorus	ppm	ASTM D5185(m)	485	276	<u>^</u> 262	265		

Customer Id: VESTAS Sample No.: WC0783112 Lab Number: 02576931 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

05 Dec 2022 Diag: Bill Quesnel





The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. Phosphorus ppm levels are abnormally low. The AN level is acceptable for this fluid.



15 Jun 2022 Diag: Kevin Marson

WEAR



We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

20 Dec 2021 Diag: Bill Quesnel

WEAR



We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



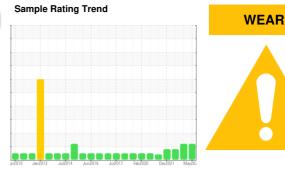


OIL ANALYSIS REPORT

Ravenswood SP-24224 T6 (S/N 36260)

Wind Turbine Gearbox

MOBIL MOBILGEAR SHC XMP 320 (260 LTR)



DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

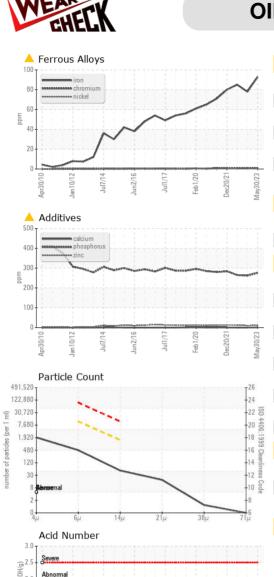
Fluid Condition

Phosphorus ppm levels are abnormally low. The AN level is acceptable for this fluid.

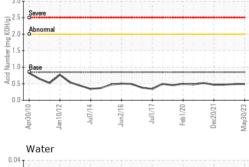
Sample Number	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info	Sample Number		Client Info		WC0783112	WC0632655	WC0632624
Oil Age mths Client Info N/A			Client Info		30 May 2023	05 Dec 2022	15 Jun 2022
Oil Changed Sample Status Client Info N/A N/A N/A N/A ABNORMAL	Machine Age	mths	Client Info		0	0	0
Sample Status method limit/base current history1 history2 PQ ASTM D8184* >50 0 0 0 Iron ppm ASTM D8185/m >75 ♣ 93 ♣ 78 ♣ 85 Chromium ppm ASTM D8185/m >5 <1 <1 <1 <1 Nickel ppm ASTM D8185/m >10 0 0 0 0 Silver ppm ASTM D8185/m >10 0 0 0 0 Aluminum ppm ASTM D8185/m >10 0 0 0 0 Lead ppm ASTM D8185/m >10 0 0 0 0 0 Copper ppm ASTM D8185/m >5 2 2 2 2 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Oil Age	mths	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* >50 0 0 0 Iron ppm ASTM D5185m >75 ♣ 93 ♣ 78 ♣ 85 Chromium ppm ASTM D5185m >5 <1 <1 <1 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >5 2	Oil Changed		Client Info		N/A	N/A	N/A
PQ ASTM D8184* >50 0 0 0 Iron ppm ASTM D5185(m) >75 4 93 4 78 4 85 Chromium ppm ASTM D5185(m) >5 <1	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185(m) >5 <1	PQ		ASTM D8184*	>50	0	0	0
Nickel	Iron	ppm	ASTM D5185(m)	>75	4 93	▲ 78	△ 85
Titanium ppm ASTM D5185(m) >10 0 0 0 Silver ppm ASTM D5185(m) >10 0 0 0 Aluminum ppm ASTM D5185(m) >10 0 0 0 Copper ppm ASTM D5185(m) >5 2 2 2 2 Tin ppm ASTM D5185(m) >5 0 <1	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Silver ppm ASTM D5185(m) 0 0 0 Aluminum ppm ASTM D5185(m) >10 0 0 0 Lead ppm ASTM D5185(m) >15 0 0 0 Copper ppm ASTM D5185(m) >5 2 2 2 Tin ppm ASTM D5185(m) >5 0 <1	Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Aluminum ppm ASTM D5185(m) >10 0 0 0 Lead ppm ASTM D5185(m) >15 0 0 0 Copper ppm ASTM D5185(m) >5 2 2 2 2 Tin ppm ASTM D5185(m) >10 0 0 0 Antimony ppm ASTM D5185(m) >5 0 <1	Titanium	ppm	ASTM D5185(m)	>10	0	0	0
Lead ppm ASTM D5185(m) >15 0 0 0 Copper ppm ASTM D5185(m) >5 2 2 2 2 Tin ppm ASTM D5185(m) >10 0 0 0 Antimony ppm ASTM D5185(m) >5 0 <1	Silver	ppm	ASTM D5185(m)		0	0	0
Copper ppm ASTM D5185(m) >5 2 2 2 2 Tin ppm ASTM D5185(m) >10 0 0 0 Antimony ppm ASTM D5185(m) >5 0 <1 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 <1 Calcium ppm ASTM D5185(m) 0 <1 <th>Aluminum</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>>10</th> <th>0</th> <th>0</th> <th>0</th>	Aluminum	ppm	ASTM D5185(m)	>10	0	0	0
Tin ppm ASTM D5188(m) >10 0 0 0 Antimony ppm ASTM D5185(m) >5 0 <1	Lead	ppm	ASTM D5185(m)	>15	0	0	0
Antimony ppm ASTM D5185(m) >5 0 <1	Copper	ppm	ASTM D5185(m)	>5	2	2	2
Vanadium ppm ASTM D5185(m) 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 <1	Tin	ppm	ASTM D5185(m)	>10	0	0	0
Beryllium	Antimony	ppm	ASTM D5185(m)	>5	0	<1	0
Beryllium	Vanadium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 <1 <1 <1 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) 0 0 <1 <1 <1 Magnesium ppm ASTM D5185(m) 0 <1 0 0 <1 Calcium ppm ASTM D5185(m) 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 0 <1 1 0 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 1 <	Beryllium		ASTM D5185(m)		0	0	0
Boron ppm ASTM D5185(m) 0 <1	Cadmium	ppm	ASTM D5185(m)		0	0	0
Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 <1 Magnesium ppm ASTM D5185(m) 0 <1 0 0 Calcium ppm ASTM D5185(m) 0 <1 0 0 Phosphorus ppm ASTM D5185(m) 485 276 262 265 Zinc ppm ASTM D5185(m) 0 11 10 12 Sulfur ppm ASTM D5185(m) 3388 3149 3591 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >40 5 2 3 Sodium ppm ASTM D5185(m) >10 <1 <1 <1 <1	ADDITIVES		mothod	limit/hasa	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 0 0 0 Manganese ppm ASTM D5185(m) <1	ADDITIVEO		memou	IIIIII basc	Culterit	Thistory	HISTOTYZ
Manganese ppm ASTM D5185(m) <1		ppm					
Magnesium ppm ASTM D5185(m) 0 0 <1	Boron		ASTM D5185(m)		<1	<1	<1
Calcium ppm ASTM D5185(m) 0 <1	Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	0	<1 0	<1 0	<1
Phosphorus ppm ASTM D5185(m) 485 ▲ 276 ▲ 262 265 Zinc ppm ASTM D5185(m) 0 11 10 12 Sulfur ppm ASTM D5185(m) 3388 3149 3591 Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >40 5 2 3 Sodium ppm ASTM D5185(m) >10 <1 <1 <1 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Vater % ASTM D6305(m) >20 <1 <1 <1 Water % ASTM D6304* >0.02 0.006 0.004 0.007 ppm Water ppm ASTM D6304* >200 62.1 41.5 73.6 INFRA-RED method limit/base current </th <th>Boron Barium Molybdenum</th> <th>ppm ppm</th> <th>ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)</th> <th>0</th> <th><1 0 0</th> <th><1 0 0</th> <th><1 0 0</th>	Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	<1 0 0	<1 0 0	<1 0 0
Zinc ppm ASTM D5185(m) 0 11 10 12 Sulfur ppm ASTM D5185(m) 3388 3149 3591 Lithium ppm ASTM D5185(m) <1	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	<1 0 0 0 <1	<1 0 0 0 <1	<1 0 0 0 <1
Sulfur ppm ASTM D5185(m) 3388 3149 3591 Lithium ppm ASTM D5185(m) <1	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	<1 0 0 < <1 0	<1 0 0 0 <1 0	<1 0 0 0 <1 <1
Lithium ppm ASTM D5185(m) <1	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m)	0	<1 0 0 <1 0 <1	<1 0 0 0 <1 0	<1 0 0 0 <1 <1 0
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >40 5 2 3 Sodium ppm ASTM D5185(m) >10 <1 <1 <1 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Water % ASTM D6304* >0.02 0.006 0.004 0.007 ppm Water ppm ASTM D6304* >200 62.1 41.5 73.6 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 0 0 Nitration Abs/cm ASTM D7624* 2.4 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 485	<1 0 0 <1 0 <1 0 <1	<1 0 0 <1 0 0 4 262	<1 0 0 <1 <1 <1 0 265
Silicon ppm ASTM D5185(m) >40 5 2 3 Sodium ppm ASTM D5185(m) >10 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 485	<1 0 0 <1 0 <1 4 276	<1 0 0 <1 0 0 4 262	<1 0 0 <1 <1 0 265
Sodium ppm ASTM D5185(m) >10 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 485	<1 0 0 <1 0 <1 ▲ 276 11 3388	<1 0 0 <1 0 0 262 10 3149	<1 0 0 0 <1 <1 0 265 12 3591
Sodium ppm ASTM D5185(m) >10 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 485 0	<1 0 0 <1 0 <1 ▲ 276 11 3388 <1	<1 0 0 <1 0 0 262 10 3149 <1	<1 0 0 <1 <1 <1 0 265 12 3591 <1
Water % ASTM D6304* >0.02 0.006 0.004 0.007 ppm Water ppm ASTM D6304* >200 62.1 41.5 73.6 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 0 0 Nitration Abs/cm ASTM D7624* 2.4 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 485 0	<1 0 0 <1 0 <1 ▲ 276 11 3388 <1	<1 0 0 <1 0 0 0 262 10 3149 <1	<1 0 0 <1 <1 0 265 12 3591 <1
ppm Water ppm ASTM D6304* >200 62.1 41.5 73.6 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 0 0 Nitration Abs/cm ASTM D7624* 2.4 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 485 0 limit/base	<1 0 0 <1 0 <1 ▲ 276 11 3388 <1 current	<1 0 0 <1 0 0 0 262 10 3149 <1 history1	<1 0 0 <1 <1 0 265 12 3591 <1 history2
INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 0 0 Nitration Abs/cm ASTM D7624* 2.4 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 485 0 limit/base >40 >10	<1 0 0 <1 0 <1 276 11 3388 <1 current 5 <1	<1 0 0 0 <1 0 0 262 10 3149 <1 history1 2	<1 0 0 <1 <1 0 265 12 3591 <1 history2
Soot % % ASTM D7844* 0 0 0 Nitration Abs/cm ASTM D7624* 2.4 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 485 0 limit/base >40 >10 >20	<1 0 0 <1 0 <1 276 11 3388 <1 current 5 <1 <1	<1 0 0 <1 0 0 0 262 10 3149 <1 history1 2 <1 <1	<1 0 0 <1 <1 0 265 12 3591 <1 history2 3 <1 <1
Nitration Abs/cm ASTM D7624* 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 485 0 limit/base >40 >10 >20 >0.02	<1 0 0 <1 0 <1 ▲ 276 11 3388 <1 current 5 <1 <1 <1	<1 0 0 <1 0 0 262 10 3149 <1 history1 2 <1 <1 0.004	<1 0 0 <1 <1 0 265 12 3591 <1 history2 3 <1 <1 0.007
Nitration Abs/cm ASTM D7624* 2.4 2.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 485 0 limit/base >40 >10 >20 >0.02 >200	<1 0 0 <1 0 <1 276 11 3388 <1 current 5 <1 <1 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 0 0 0 <1 0 0 262 10 3149 <1 history1 2 <1 <1 0.004 41.5	<1 0 0 0 <1 <1 0 265 12 3591 <1 history2 3 <1 <1 0.007 73.6
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*	0 0 485 0 limit/base >40 >10 >20 >0.02 >200	<1 0 0 <1 0 <1 △ 276 11 3388 <1 current 5 <1 <1 0.006 62.1 current	<1 0 0 0 <1 0 0 262 10 3149 <1 history1 2 <1 <1 0.004 41.5 history1	<1 0 0 0 <1 <1 0 265 12 3591 <1 history2 3 <1 <1 0.007 73.6 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D6304*	0 0 485 0 limit/base >40 >10 >20 >0.02 >200	<1 0 0 <1 0 <1 0 <1 276 11 3388 <1 current 5 <1 <1 0.006 62.1 current 0	<1 0 0 0 <1 0 0 262 10 3149 <1 history1 2 <1 <1 0.004 41.5 history1 0	<1 0 0 0 <1 <1 <1 0 265 12 3591 <1 history2 3 <1 <1 0.007 73.6 history2 0

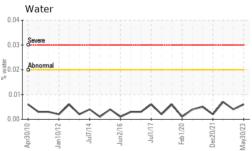


OIL ANALYSIS REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1721	4692	2237
Particles >6µm		ASTM D7647	>10000	422	700	433
Particles >14µm		ASTM D7647	>1300	45	24	33
Particles >21µm		ASTM D7647	>320	16	8	11
Particles >38µm		ASTM D7647	>80	1	1	1
Particles >71µm		ASTM D7647	>20	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/20/17	18/16/13	19/17/12	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		55.0	22.6	46.5
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	0.49	0.49	0.47
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
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*	>0.02	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	335	326	328	328
Visc @ 100°C	cSt	ASTM D7279(m)	38.3	37.0	37.2	36.8
Viscosity Index (VI)	Scale	ASTM D2270*	164	161	162	160
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0783112

: 02576931 : 5629991

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Vestas American Wind Technology Inc. Received : 18 Aug 2023 Diagnosed

: 21 Aug 2023

Diagnostician : Kevin Marson

Test Package : IND 2 (Additional Tests: FT-IR, KF, KV100, PQ, TAN Man, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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