

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area IRON STAR [200006142] Machine Id 11WEA88306

Component Wind Turbine Gearbox Fluid GEAR OIL (PAO) ISO 320 (--- LTR)

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 oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

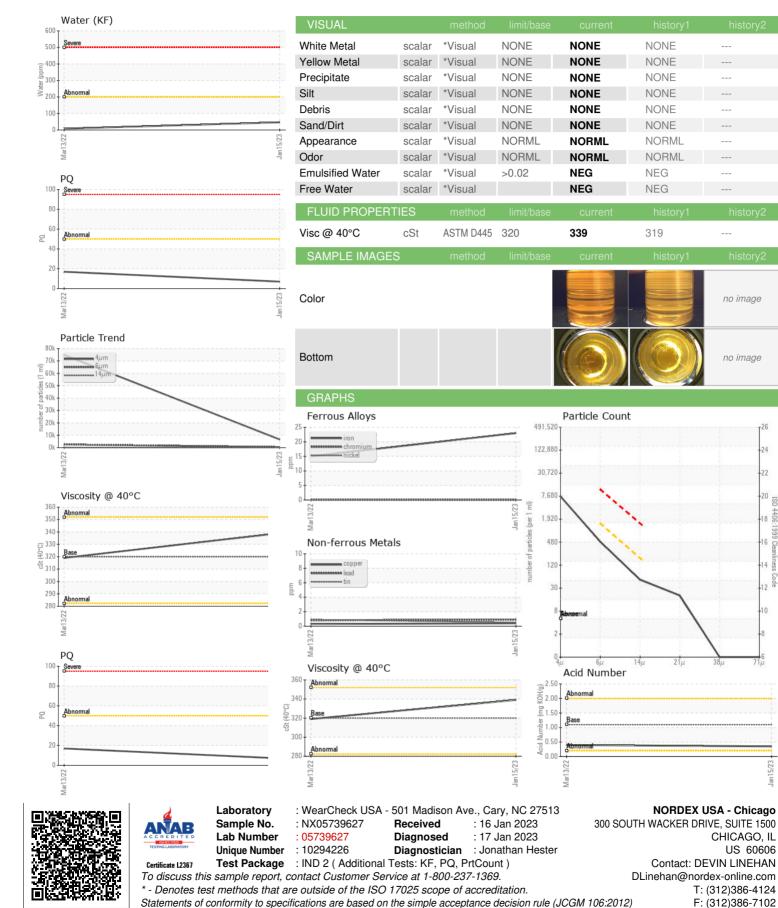
			Mar2022	Jan2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX05739627	NX05491176	
Sample Date		Client Info		15 Jan 2023	13 Mar 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	7	17	
Iron	ppm	ASTM D5185m	>30	23	15	
Chromium	ppm	ASTM D5185m	>3	0	<1	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>10	0	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>30	0	<1	
Lead	ppm	ASTM D5185m	>15	<1	<1	
Copper	ppm	ASTM D5185m	>10	<1	<1	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m	210	0	0	
Cadmium		ASTM D5185m		0	0	
	ppm		11		-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	9	12	
Barium	ppm	ASTM D5185m	12	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	25	0	0	
Calcium	ppm	ASTM D5185m	25	21	21	
Phosphorus	ppm	ASTM D5185m	375	214	246	
Zinc	ppm	ASTM D5185m	25	4	0	
Sulfur	ppm	ASTM D5185m	4900	5683	4372	
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+15	10	9	
Sodium	ppm	ASTM D5185m		4	2	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.02	0.004	0.001	
ppm Water	ppm	ASTM D6304	>200	46.2	8.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6568	74850	
Particles >6µm		ASTM D7647	>1300	433	A 2575	
Particles >14μm		ASTM D7647	>160	44	35	
Particles >21µm		ASTM D7647		17	6	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>17/14	16/13	▲ 23/19/12	
FLUID DEGRADA		method	limit/base			
				current	history1	history2
Acid Number (AN) :00:58) Rev: 1	mg KOH/g	ASTM D8045	1.10	0.35 Contact/Locatic	0.40 on: DEVIN LINEI	
				UUIIIau//LUCAIIC		

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