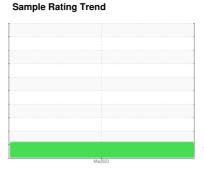


# **OIL ANALYSIS REPORT**

# **CARS CARS30MAR23-721**

Component Gearbox

XPDC 139 (--- QTS)





### **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. Please note that this is a corrected copy for laboratory data updates of elemental data.

#### 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 above the recommended limit.

SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0685919		
Sample Date		Client Info		31 Mar 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	history 1	history 2
Iron	ppm	ASTM D5185m	>200	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	710	0		
Cadmium	ppm	ASTM D5185m		0		
	ррпп			· ·		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		315		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		5		
Calcium	ppm	ASTM D5185m		46		
Phosphorus	ppm	ASTM D5185m		1147		
Zinc	ppm	ASTM D5185m		3		
Sulfur	ppm	ASTM D5185m		724		
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>50	0		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.2	0.078		
ppm Water	ppm	ASTM D6304	>2000	781.5		
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	1644		
Dartialas - Cum		ASTM D7647	>5000	371		
Particles >6µm			>640	13		
Particles >6µm		ASTM D7647	<b>/</b> 0+0			
		ASTM D7647 ASTM D7647	>160	3		
Particles >14μm Particles >21μm		ASTM D7647				
Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647	>160	3		
Particles >14μm Particles >21μm		ASTM D7647	>160 >40	3 0		
Particles >14μm Particles >21μm Particles >38μm Particles >71μm	TION	ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10	3 0 0		   history 2

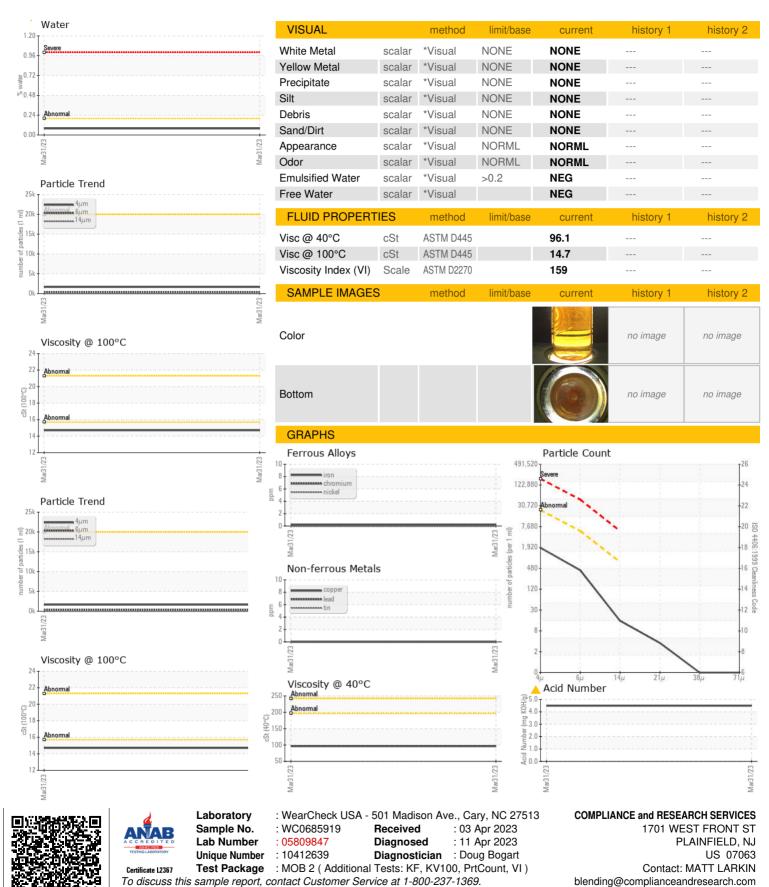
Acid Number (AN)

mg KOH/g ASTM D8045

**4.488** 



## **OIL ANALYSIS REPORT**



\* - 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: F: