

OIL ANALYSIS REPORT

Sample Rating Trend



Area CARS Machine Id CARS08MAY23-227 Component

Gearbox Fluid XPDC 140 (--- GAL)

DIAGNOSIS

A Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. 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.

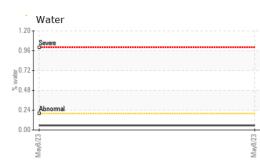
Fluid Condition

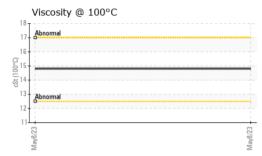
The AN level is at the top-end of the recommended limit.

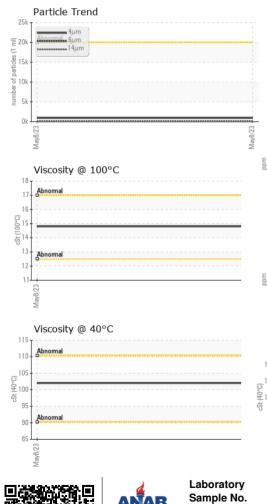
WEAR METALS method limil/base current history 1 history 2 Iron ppm ASTM D5185m >200 <1 Nickel ppm ASTM D5185m >10 <1 Titanium ppm ASTM D5185m >10 <1 Aluminum ppm ASTM D5185m >10 <1 Aluminum ppm ASTM D5185m >50 <1 Lead ppm ASTM D5185m >50 <1 Copper ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m 0	SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Machine Age mis Client Info 0 Oil Age mis Client Info N/A Sample Status Client Info N/A WEAR METALS method limi/base current history 1 WEAR METALS method limi/base current history 1 Nickel ppm ASTM 05185m >10 <1 Silver ppm ASTM 05185m >10 <1 Capper ppm ASTM 05185m >50 <1 ADDITIVES method limi/base current history 1 Manganese <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0577481</th> <th></th> <th></th>	Sample Number		Client Info		WC0577481		
Oil Age mis Client Info N/A Sample Status Client Info N/A WEAR METALS method limit/base current history 1 history 2 Iron ppm ASTM D5185m >200 <1	Sample Date		Client Info		08 May 2023		
Oli Changed Client Info N/A Sample Status Image of the status I	Machine Age	mls	Client Info		0		
Sample Status Imate of the status ABNORMAL Inistory 1 Inistory 2 Iron ppm ASTM D5185m >200 <1	Oil Age	mls	Client Info		0		
WEAR METALS method limit/base current history 1 history 2 Iron ppm ASTM D5185m >200 <1	Oil Changed		Client Info		N/A		
ron ppm ASTM D5185m >200 <1	Sample Status				ABNORMAL		
Chromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history 1	history 2
Nickel ppm ASTM D5185m >10 <1 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m <1	Iron	ppm	ASTM D5185m	>200	<1		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	<1		
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Potassium ppm ASTM D5185m >20 2 Water % ASTM D6304 >0.2 0.0555 ppm Water ppm ASTM D6304 >2000 557.2 FLUID CLEANLINESS method limit/base current history 1 history 2 Particles >4µm ASTM D7647 >20000 900 Particles >6µm ASTM D7647 >5000 142 Particles >14µm ASTM D7647 >640 6 Particles >14µm ASTM D7647 >160 2 Particles >21µm ASTM D7647 >160 2 Particles >38µm ASTM D7647 >10 0 Oil Cleanliness ISO 4406 (c) >2/1/9/16 17/14/10 FLUID DEGRADATION method limit/base current history 1 </td <td>Silicon</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>50</td> <td><1</td> <td></td> <td></td>	Silicon	ppm	ASTM D5185m	>50	<1		
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Oil Cleanliness ISO 4406 (c) >21/19/16 17/14/10 FLUID DEGRADATION method limit/base current history 1 history 2			ASTM D7647	>10	0		
	Oil Cleanliness						
Acid Number (AN) mg KOH/g ASTM D8045 🔺 4.29	FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
	Acid Number (AN)	mg KOH/g	ASTM D8045		4.29		



OIL ANALYSIS REPORT







Certificate L2367

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VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445		102		
Visc @ 100°C	cSt	ASTM D445		14.8		
		ASTM D443 ASTM D2270		151		
Viscosity Index (VI)	Scale			151		
SAMPLE IMAGES	5	method	limit/base	current	history 1	history 2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Ferrous Alloys			101 5	Particle Count		20
iron			491,52	Severe		[²⁶
Anterna chromium			122,88	30		-24
			30,72	20 Abnormal		-22
· · · · · · · · · · · · · · · · · · ·			7.03			20 -
			F2/2 7.68	50-	N	-20 2
May8/23			May8/23 (per 1 ml)	20-		-18
Non-ferrous Metal	\$		·민 48		`	+18 1939 Cleaning 4
T			of pa			
copper			May8/23. 11 May8/23.	20-		-14 ness
************ tin				80-		-12 8
				8-	\	-10
May8/23			May8/23	2-		-8
W			Ma	0 4µ 6µ	14μ 21μ	38µ 71µ
Viscosity @ 40°C				Acid Number	1 1µ2 2 1µ2	38µ /1µ
Abnormal			(B/HC	.0		
) X 4	.0		
Abnormal			- 3 - 9 2	.0		
Abnormal			0 Acid Number (mg KOH(g) 5 4 5	.0 -		
			Acio			
May8/2			May8/23	May8/23		May8/23
	01 Madi					
05843314	Received Diagnos	d :101 ed :161	May 2023 May 2023		1701 WE	ARCH SERVICES EST FRONT ST LAINFIELD, NJ
	Diagnost		Ig Bogart		O a mina a tra	US 07063
MOB 2 (Additional ntact Customer Servi				blending		MATT LARKIN ndresearch.com

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

 * - 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)

Lab Number Unique Number Test Package

T:

F: