

OIL ANALYSIS REPORT

RIG 879 R879-P-02-NKL

Component Pump Fluid

GEAR OIL ISO 320 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

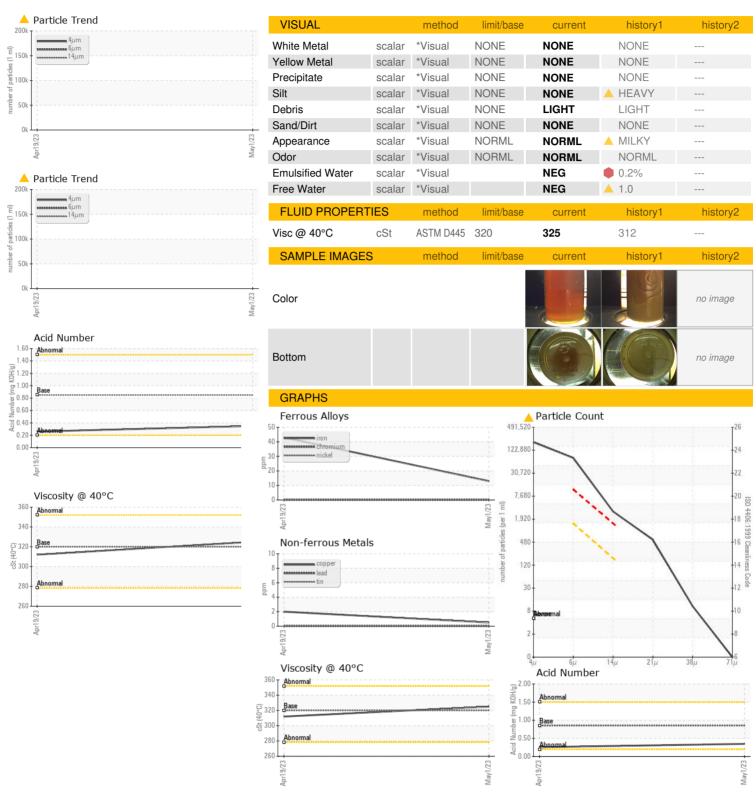
Fluid Condition

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

			Apr2023	May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012424	KL0009707	
Sample Date		Client Info		01 May 2023	19 Apr 2023	
Machine Age	days	Client Info		45047	45035	
Oil Age	days	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	13	43	
Chromium	ppm	ASTM D5185m	>7	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		<1	3	
Lead	ppm	ASTM D5185m	>35	0	0	
Copper	ppm		>50	<1	2	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	19	1	
Barium	ppm	ASTM D5185m	15	0	10	
Molybdenum	ppm	ASTM D5185m	15	10	55	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	50	18	8	
Calcium	ppm	ASTM D5185m	50	57	250	
Phosphorus	ppm	ASTM D5185m	350	194	177	
Zinc	ppm	ASTM D5185m	100	25	70	
Sulfur	ppm	ASTM D5185m	12500	10227	13486	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	19	
Sodium	ppm	ASTM D5185m		36	45	
Potassium	ppm	ASTM D5185m	>20	1	1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		170561		
Particles >6µm		ASTM D7647		<u>^</u> 66481		
Particles >14µm		ASTM D7647	>160	<u>^</u> 2660		
Particles >21µm		ASTM D7647	>40	<u>487</u>		
Particles >38µm		ASTM D7647	>10	9		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>17/14	<u>23/19</u>		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.35	0.26	



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: KL0012424 : 05839200 : 10458003

Received : 05 May 2023 Diagnosed Diagnostician

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 08 May 2023 : Doug Bogart

Test Package : MOB 2 (Additional Tests: PrtCount) 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)

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