

### **OIL ANALYSIS REPORT**

Sample Rating Trend

WATER

# **39 - DART CONTAINER**

Gearbox Fluid CITGO PAG 100 (--- LTR)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0000219		
Sample Date		Client Info		17 May 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed	1113	Client Info		N/A		
Sample Status				ABNORMAL		
÷				-		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		32		
Iron	ppm	ASTM D5185m		10		
Chromium	ppm	ASTM D5185m	>15	<1		
Nickel	ppm	ASTM D5185m	>15	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>25	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		1129		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		217		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.2	<b>0.202</b>		
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 2022.5		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>102365</b>		
Particles >6µm		ASTM D7647	>5000	4969		
Particles >14µm		ASTM D7647	>640	43		
Particles >21µm		ASTM D7647	>160	8		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>4</b> /19/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.21		
		20010				

Contact/Location: CHRIS HIGGINS - KIMNAS



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Danti

(maa)

Water

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