

# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

#### Area **PITT OHIO** Machine Id **PITT OHIO D2682** Component

Front Differential Fluid NOT GIVEN (--- GAL)

# DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# Wear

All component wear rates are normal.

### Contamination

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

#### Fluid Condition

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

			May2023	Oct2023		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0876014	WC0828721	
Sample Date		Client Info		19 Oct 2023	22 May 2023	
Machine Age	mls	Client Info		51574	72	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	83	9	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	<1	
_ead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>100	<1	0	
Tin		ASTM D5185m	>100	<1	<1	
	ppm		>10	0		
Vanadium	ppm	ASTM D5185m		-	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		94	116	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Vanganese	ppm	ASTM D5185m		8	2	
Magnesium	ppm	ASTM D5185m		172	181	
Calcium	ppm	ASTM D5185m		2	0	
Phosphorus	ppm	ASTM D5185m		1756	1693	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		25475	25056	
CONTAMINANTS	i	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	34	3	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>.2	0.015	0.029	
ppm Water	ppm	ASTM D6304	>2000	159	290.0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>115795</b>	▲ 132540	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<b>4</b> 4230	
Particles >14µm		ASTM D7647	>640	50	<b>A</b> 864	
Particles >21µm		ASTM D7647	>160	12	128	
Particles >38µm		ASTM D7647	>40	1	3	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/21/13	24/23/17	
FLUID DEGRADA		method				
			limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.56	0.86	



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