

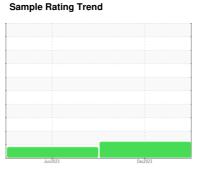
OIL ANALYSIS REPORT

DAYTON FREIGHT Machine Id DAYTON FREIGHT 423812

Component

Rear Differential

GEAR OIL SAE 75W90 (--- GAL)





DIAGNOSIS

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.

			Jun2023	Dec2023		
SAMPLE INFORT	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900831	WC0828707	
Sample Date		Client Info		13 Dec 2023	23 Jun 2023	
Machine Age	mls	Client Info		40725	1674	
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
Iron	ppm	ASTM D5185m	>500	177	45	
Chromium	ppm	ASTM D5185m	>10	2	0	
Nickel	ppm	ASTM D5185m	>10	5	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>25	2	<1	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm		>100	2	<1	
Tin	ppm	ASTM D5185m	>10	 <1	<1	
Vanadium	ppm	ASTM D5185m	710	<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES	ррпп	method	limit/base			
					history1	history2
Boron	ppm	ASTM D5185m	400	260	289	
Barium	ppm	ASTM D5185m	200	4	0	
Molybdenum	ppm	ASTM D5185m	12	<1	0	
Manganese	ppm	ASTM D5185m		14	3	
Magnesium	ppm	ASTM D5185m	12	3	1	
Calcium	ppm	ASTM D5185m	150	16	7	
Phosphorus	ppm	ASTM D5185m	1650	1432	1384	
Zinc	ppm	ASTM D5185m	125	20	0	
Sulfur	ppm	ASTM D5185m	22500	26400	25056	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	44	35	
Sodium	ppm	ASTM D5185m		5	4	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>.2	0.038	0.041	
ppm Water	ppm	ASTM D6304	>2000	390	419.8	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	△ 311974	△ 62063	
Particles >6µm		ASTM D7647	>5000	66398	4414	
Particles >14µm		ASTM D7647	>640	307	25	
Particles >21µm		ASTM D7647	>160	40	5	
Particles >38µm		ASTM D7647	>40	1	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>\$\times 25/23/15</u>	▲ 23/19/12	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩U/a	VALUE DOUG	2.00	2 24	2 55	

Acid Number (AN)

mg KOH/g ASTM D8045 2.00

2.55

2.24



OIL ANALYSIS REPORT

