

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id **S185** Component Front Differential Fluid GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm. Please specify the component make and model with your next sample.

🔺 Wear

Copper, iron and tin ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920168		
Sample Date		Client Info		20 Mar 2024		
Machine Age	hrs	Client Info		1675		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		127		
Iron	ppm	ASTM D5185(m)	>500	<u> </u>		
Chromium	ppm	ASTM D5185(m)	>10	4		
Nickel	ppm	ASTM D5185(m)	>10	2		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	4		
Lead	ppm	ASTM D5185(m)	>25	6		
Copper	ppm	ASTM D5185(m)	>100	<u> </u>		
Tin	ppm	ASTM D5185(m)	>10	<u> </u>		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	400	117		
Barium	ppm	ASTM D5185(m)	200	9		
Molybdenum	ppm	ASTM D5185(m)	12	0		
Manganese	ppm	ASTM D5185(m)		10		
Magnesium	ppm	ASTM D5185(m)	12	5		
Calcium	ppm	ASTM D5185(m)	150	35		
Phosphorus	ppm	ASTM D5185(m)	1650	875		
Zinc	ppm	ASTM D5185(m)	125	118		
Sulfur	ppm	ASTM D5185(m)	22500	16700		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	27		
Sodium	ppm		>170	14		
Potassium	ppm	ASTM D5185(m)	>20	4		



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