

OIL ANALYSIS REPORT

Sample Rating Trend



Area PLOGER Machine Id 6186 - PLOGER

Component Front Differential Fluid GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

🔺 Wear

Bearing and/or gear wear is indicated.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900854		
Sample Date		Client Info		09 Jan 2024		
Machine Age	mls	Client Info		488389		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	6 513		
Chromium	ppm	ASTM D5185m	>10	4		
Nickel	ppm	ASTM D5185m	>10	5		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25	A 33		
Copper	ppm	ASTM D5185m		<u> </u>		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m	-	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	122		
Barium	ppm	ASTM D5185m	200	1		
Molybdenum	ppm	ASTM D5185m	12	<1		
Manganese	ppm	ASTM D5185m		16		
Magnesium	ppm	ASTM D5185m	12	3		
Calcium	ppm	ASTM D5185m	150	14		
Phosphorus	ppm	ASTM D5185m	1650	1278		
Zinc	ppm	ASTM D5185m	125	22		
Sulfur	ppm	ASTM D5185m	22500	24874		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	116		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>.2	0.024		
ppm Water	ppm	ASTM D6304	>2000	250		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<mark>人</mark> 49845		
1 aι ιισι ο 5 >4μι ΙΙ		ASTM D7647	>5000	4131		
Particles >4µm Particles >6µm				139		
		ASTM D7647	>640	139		
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>640 >160	30		
Particles >6μm Particles >14μm Particles >21μm						
Particles >6µm		ASTM D7647	>160 >40	30		
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647	>160 >40	30 0		
Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm		ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10	30 0 0		



14µm

60

- 50

20

10

0

250

200

150

100

50

12000 1000 800

600 Water 400

2000

20 19

18

() 17. (100°C) 16. 15.

14 Abnorma

13

12

250

200

150

100

50

Abnormal

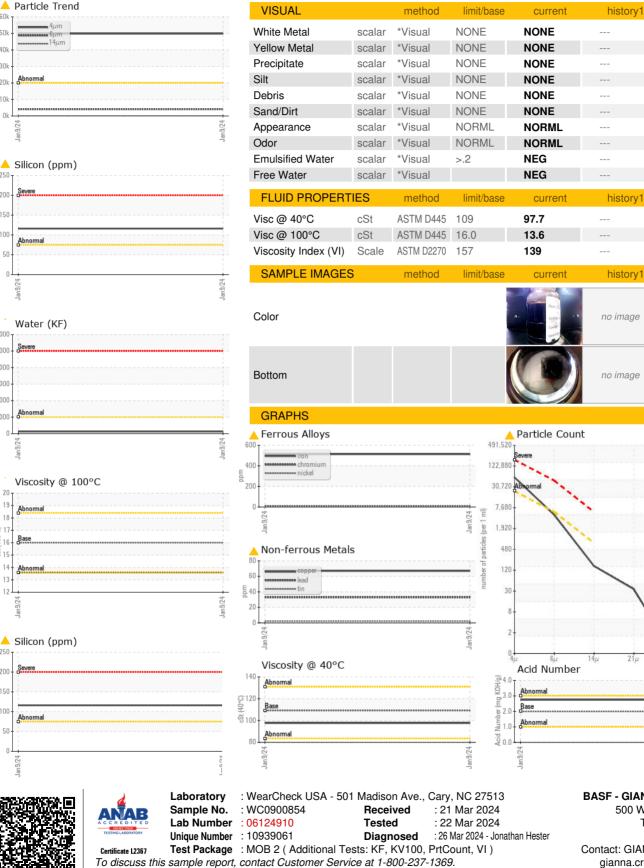
Bas

Abno

Abnorma

Water (KF)

OIL ANALYSIS REPORT



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* - 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)

Contact/Location: GIANNA CREDAROLI - BASTARHD

history2

history

history2

no image

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