

OIL ANALYSIS REPORT

Sample Rating Trend



Component Transmission (Manual) Fluid GEAR OIL SAE 80 (--- GAL)

METRO 20020

DIAGNOSIS

Area METRO

A Recommendation

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

🔺 Wear

The aluminum level is abnormal. The tin level is abnormal.

Contamination

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

Fluid Condition

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

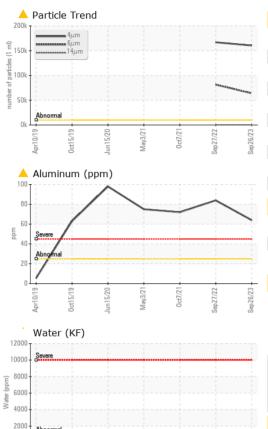
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853945	WC0765840	WC0631723
Sample Date		Client Info		26 Sep 2023	27 Sep 2022	07 Oct 2021
Machine Age	mls	Client Info		391215	316416	233716
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	77	91	73
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	A 84	<u>∧</u> 72
Lead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>225	2	4	4
Tin	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>	<u> </u>
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	0	6	11
Barium	ppm	ASTM D5185m	200	1	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	<1	<1
Manganese	ppm	ASTM D5185m		16	18	13
Magnesium	ppm	ASTM D5185m	12	3	4	6
Calcium	ppm	ASTM D5185m	150	30	62	74
Phosphorus	ppm	ASTM D5185m	1650	740	963	902
Zinc	ppm	ASTM D5185m	125	16	19	15
Sulfur	ppm	ASTM D5185m	22500	9775	14861	9967
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	6	14	5
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	6	4	3
Water	%	ASTM D6304	>0.1	0.006	0.019	0.015
ppm Water	ppm	ASTM D6304	>1000	63.8	191.8	153.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 160333	▲ 166913	
Particles >6µm		ASTM D7647	>2500	<u> </u>	▲ 81524	
Particles >14µm		ASTM D7647	>320	122	200	
Particles >21µm		ASTM D7647	>80	11	24	
Particles >38µm		ASTM D7647	>20	0	1	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>	▲ 25/24/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	0.72	1.20	1.177
:26:06) Rev: 1	- 0		Contact	/Location: GIAN	NA CREDARO	II - BASTARH

Report Id: bastarhd [WUSCAR] 05996288 (Generated: 11/03/2023 16:26:06) Rev: 1

Contact/Location: GIANNA CREDAROLI - BASTARHD



OIL ANALYSIS REPORT



Mav3/21

Mav3/21

C/2/2

Certificate L2367

in15/20

0ct7/21

Viscosity @ 100°C

14

13

12

cSt (100°C) 6 cSt (100°C) 8

3.5

.(mg KOH/g) 2.1 2.1

Number (

Arid

0.

0.

Base Abnorma

Acid Number



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: