

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area MET EXPRESS MET EXPRESS 24019 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.

SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0828806		
Sample Date		Client Info		23 May 2023		
Machine Age	mls	Client Info		536		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>500	6		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm		>100	0		
Tin	ppm	ASTM D5185m	>100	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		91		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		200		
Calcium	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		2174		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		31034		
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>75	2		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304	>.2	0.045		
ppm Water	ppm	ASTM D6304	>2000	455.4		
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	<u> </u>		
Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >14µm		ASTM D7647	>640	408		
Particles >21µm		ASTM D7647	>160	172		
Particles >38µm		ASTM D7647	>40	2		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	4 23/20/16		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.14		



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

history 1

history

history 1

no image

no image

21µ

384

BASF - GIANNA CREDAROLI

Contact: GIANNA CREDAROLI

gianna.credaroli@basf.com

500 WHITE PLAINS RD

TARRYTOWN, NY

history 2

history

history 2

no image

no image

20 23

1400

US 10591

T:

F: