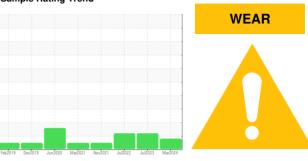


OIL ANALYSIS REPORT

Sample Rating Trend



METRO Machine Id METRO 20005

Front Differential

Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition.

Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934473	WC0843183	WC0728428
Sample Date		Client Info		15 Mar 2024	13 Jul 2023	06 Jul 2022
Machine Age	mls	Client Info		508207	444251	338372
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	>500	△ 600	258	185
Chromium	ppm	ASTM D5185m	>10	4	2	1
Nickel	ppm	ASTM D5185m	>10	5	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	6	7
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	2	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		58	85	52
Barium	ppm	ASTM D5185m		2	27	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		11	3	2
Magnesium	ppm	ASTM D5185m		163	153	154
Calcium	ppm	ASTM D5185m		6	<1	2
Phosphorus	ppm	ASTM D5185m		1748	1602	1578
Zinc	ppm	ASTM D5185m		9	34	2
Sulfur	ppm	ASTM D5185m		27680	25056	25056
CONTAMINANTS	,	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	59	75	58
Sodium	ppm	ASTM D5185m		10	9	6
Potassium	ppm	ASTM D5185m	>20	8	2	1
Water	%	ASTM D6304	>.2	0.046	0.040	0.050
ppm Water	ppm	ASTM D6304	>2000	462	400.3	505.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	14416	▲ 132328	<u>▲</u> 113642
Particles >6µm		ASTM D7647	>5000	1306	<u>^</u> 21678	7492
Particles >14µm		ASTM D7647	>640	86	126	38
Particles >21µm		ASTM D7647	>160	24	14	7
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/14	<u>4</u> 24/22/14	<u>4</u> 24/20/12

1.23



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No.

Lab Number : 06179375 Unique Number : 11030701

: WC0934473 Received : 14 May 2024 **Tested**

: 16 May 2024 Diagnosed : 16 May 2024 - Angela Borella

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

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