

OIL ANALYSIS REPORT

Area **Paper Machine** VALMET Wet End Hydraulic 46-344-2850

Hydraulic System

MOBIL DTE 10 EXCEL 46 (211 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

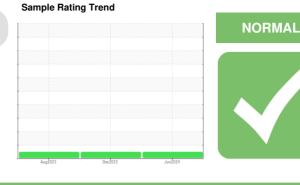
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	history1	history2
Sample Number		Client Info		WC0776476	WC0776573	WC0776598
Sample Date		Client Info		05 Jun 2024	27 Dec 2023	11 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m	-	<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron		ASTM D5185m			0	0
	ppm			0		
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		90	90	94
Phosphorus	ppm	ASTM D5185m		132	115	135
Zinc	ppm	ASTM D5185m		0	6	4
Sulfur	ppm	ASTM D5185m		714	610	781
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<1	0	<1
Sodium	ppm	ASTM D5185m		1	<1	1
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304		0.004	0.008	0.010
ppm Water	ppm	ASTM D6304		44	84	102.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	401	837	195
Particles >6µm		ASTM D7647		69	188	48
Particles >14µm		ASTM D7647	>160	3	10	7
Particles >21µm		ASTM D7647		1	2	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/9	17/15/10	15/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

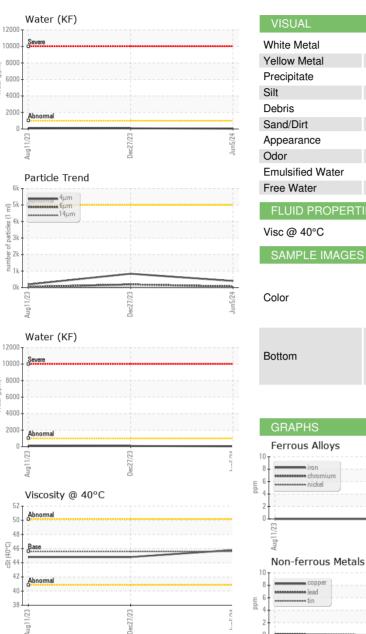
0.093 0.137 0.04

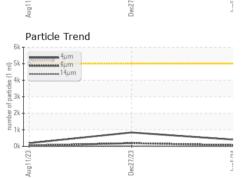


Water (ppm)

Water (ppm)

OIL ANALYSIS REPORT







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0776476 Received : 10 Jun 2024 Lab Number : 06205393 Tested : 13 Jun 2024 Unique Number : 11072854 Diagnosed : 13 Jun 2024 - Don Baldridge Test Package : PLANT Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Viscosity @ 40°C

Aug11/23

Abno

Aug 11

55

40

35

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CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT 10026 OLD RIDGE ROAD ASHLAND, VA e US 23005 Contact: MARC-ANDRE HUBERT marc-andre_hubert@cascades.com T: CGM 106:2012) F:

Dec27/23

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

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Submitted By: MARC-ANDRE HUBERT

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	45.8	44.8	44.8
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
Bottom						

Particle Count

Acid Number

491 520

122,88

30.72

1,920

480

120

30

(B)(0.15 HOX

문0.10

0.05

0.00 PC

Aug1

Jun5/24

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