

OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Mako Plastics - 888067 AG235

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- LTR)

DIAGNOSIS

A Recommendation

This is a baseline read-out on the submitted sample.

Wear

Iron ppm levels are noted.

Contamination

ppm Water and water and water and water contamination levels are abnormal. Particles >6µm are abnormally high. Particles >4µm are abnormally high. Oil Cleanliness are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. Particles >71µm are notably high. Particles >38µm are notably high.

Fluid Condition

Visc @ 100°C is abnormally low. Viscosity Index (VI) is abnormally low.

				Jan2024		
SAMPLE INFORM		method	limit/base	current	history1	history2
Machine ID		Client Info		Tote 3		
Department		Client Info		Sales		
Sample From		Client Info		Tote		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		01/15/2024		
Sample Number		Client Info		E30001149		
Sample Date		Client Info		11 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	17		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	2		
Lead	ppm	ASTM D5185(m)	>20	2		
Copper	ppm	ASTM D5185(m)	>20	9		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	1		
Barium	ppm	ASTM D5185(m)	5	0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	25	2		
Calcium	ppm	ASTM D5185(m)	200	36		
Phosphorus	ppm	ASTM D5185(m)	300	333		
Zinc	ppm	ASTM D5185(m)	370	331		
Sulfur	ppm	ASTM D5185(m)	2500	1106		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	7		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	1		
Water	%	ASTM D6304*	>0.05	<u> </u>		
ppm Water	ppm	ASTM D6304*	>500	6 5091		



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limit/base

>10000

>2500

>320

>80

>20

>4

0.57

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>0.05

46

6.7

97

>20/18/15

limit/base

limit/base

current

133527

28403

24/22/17

0.36

NONE

NONE

NONE

NONE

NONE

NONE

WGOIL

NORML

current

current

.5%

5%

43.7

5.3

12

current

current

804

190

31

8

method

ASTM D7647

ASTM D7647

ASTM D7647

ASTM D7647

ASTM D7647

ASTM D7647

ISO 4406 (c)

method

ASTM D974*

method

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

method

ASTM D7279(m)

ASTM D7279(m)

ASTM D2270*

method

history1

historv1

history1

history1

history1

no image

no image

history2

history2

history2

history2

history2

no image

no image



