

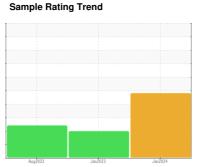
## **OIL ANALYSIS REPORT**

# DIRT

# Thermoforming Line 12 (A) Slide Valve Hydraulic (S/N N/A)

**Hydraulic System** 

**SUMMIT HYPAR FG-32 (--- GAL)** 





### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

#### ▲ Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM Sample Number Sample Date						
	MATION	method	limit/base	current	history1	history2
Sample Date		Client Info		TO50001997	TO50001452	TO50001124
		Client Info		11 Jan 2024	02 Jan 2023	23 Aug 2022
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				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		18	8	
Iron	ppm	ASTM D5185m	>20	9	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Γitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm		>20	2	0	0
_ead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	2	5
Γin	ppm	ASTM D5185m	>20	0	0	0
√anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	118	98
Phosphorus	ppm	ASTM D5185m		<b>499</b>	383	315
Zinc	ppm	ASTM D5185m		0	371	317
Sulfur	ppm	ASTM D5185m		<b>▲</b> 169	2978	1716
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>△</b> 98	<b>1</b> 6	11
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	<1	2	0
	%	ASTM D6304	>0.05	0.004	0.005	0.002
Vater						
	ppm	ASTM D6304	>500	40	51.9	25.0
		ASTM D6304	>500 limit/base	40 current	51.9 history1	
opm Water FLUID CLEANLIN						
opm Water FLUID CLEANLIN Particles >4µm		method	limit/base >5000	current	history1	history2
opm Water FLUID CLEANLIN Particles >4μm Particles >6μm		method ASTM D7647	limit/base >5000	current  △ 58916	history1	history2
opm Water  FLUID CLEANLIN  Particles >4µm  Particles >6µm  Particles >14µm		method ASTM D7647 ASTM D7647	limit/base	current  △ 58916  △ 10630	history1	history2  ▲ 8128  ▲ 1322
opm Water  FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm		method ASTM D7647 ASTM D7647 ASTM D7647	limit/base	current  ▲ 58916  ▲ 10630  ▲ 181	history1  	history2  ▲ 8128  ▲ 1322  ▲ 168
Particles >4µm Particles >6µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base	current	history1	history2  ▲ 8128  ▲ 1322  ▲ 168  ▲ 87
Particles >4µm Particles >6µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base	current  ▲ 58916  ▲ 10630  ▲ 181  28  1	history1	history2  ▲ 8128  ▲ 1322  ▲ 168  ▲ 87  ▲ 13
Water copm Water  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness  FLUID DEGRADA	NESS	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base   >5000   >1300   >160   >40   >10   >3	current	history1	history2  ▲ 8128  ▲ 1322  ▲ 168  ▲ 87  ▲ 13  2



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