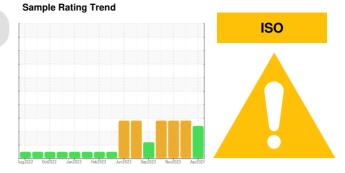


OIL ANALYSIS REPORT

Thermoforming Line 10 C Extruder (S/N AN618)

Bevel Helical Gearbox

{not provided} (78 GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50002284	TO50002199	TO50001534
Sample Date		Client Info		17 Apr 2024	26 Feb 2024	15 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		18	14	12
Iron	ppm	ASTM D5185m	>150	17	16	12
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m		2	2	5
Calcium	ppiii					
Phosphorus	ppm	ASTM D5185m		577	614	645
Phosphorus Zinc	ppm	ASTM D5185m		7	0	10
Phosphorus Zinc	ppm			-		
Phosphorus Zinc	ppm ppm	ASTM D5185m	limit/base	7	0	10
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m	limit/base >50	7 656	0 623 history1 ▲ 140	10 612 history2 ▲ 56
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m method		7 656 current 38 2	0 623 history1	10 612 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	7 656 current 38 2 0	0 623 history1 140 3 0	10 612 history2 ▲ 56 3 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.1	7 656 current 38 2 0 0.007	0 623 history1 140 3 0 0.003	10 612 history2 56 3 0 0.002
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	7 656 current 38 2 0	0 623 history1 140 3 0	10 612 history2 • 56 3 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.1	7 656 current 38 2 0 0.007 79 current	0 623 history1 140 3 0 0.003	10 612 history2 ▲ 56 3 0 0.002 24.1 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>50 >20 >0.1 >1000 limit/base >1300	7 656 current 38 2 0 0.007 79 current 7114	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772	10 612 history2 ▲ 56 3 0 0.002 24.1 history2 ▲ 2824
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	>50 >20 >0.1 >1000 limit/base	7 656 current 38 2 0 0.007 79 current 7114 2432	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772 ▲ 739	10 612 history2 ▲ 56 3 0 0.002 24.1 history2 ▲ 2824 ▲ 765
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.1 >1000 limit/base >1300 >320 >80	7 656 current 38 2 0 0.007 79 current 7114 2432 189	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772 ▲ 739 62	10 612 history2 ▲ 56 3 0 0.002 24.1 history2 ▲ 2824 ▲ 765 60
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.1 >1000 limit/base >1300 >320 >80 >20	7 656 current 38 2 0 0.007 79 current 7114 2432 189 60	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772 ▲ 739	10 612 history2 ▲ 56 3 0 0.002 24.1 history2 ▲ 2824 ▲ 765 60 18
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.1 >1000 limit/base >1300 >320 >80 >20 >4	7 656 current 38 2 0 0.007 79 current 7114 2432 189 60 7	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772 ▲ 739 62 18 1	10 612 history2 ▲ 56 3 0 0.002 24.1 history2 ▲ 2824 ▲ 765 60 18 2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.1 >1000 limit/base >1300 >320 >80 >20 >4 >3	7 656 current 38 2 0 0.007 79 current 7114 2432 189 60 7 1	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772 ▲ 739 62 18 1	10 612 history2 56 3 0 0.002 24.1 history2 2824 765 60 18 2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.1 >1000 limit/base >1300 >320 >80 >20 >4	7 656 current 38 2 0 0.007 79 current 7114 2432 189 60 7	0 623 history1 ▲ 140 3 0 0.003 35 history1 ▲ 2772 ▲ 739 62 18 1	10 612 history2 ▲ 56 3 0 0.002 24.1 history2 ▲ 2824 ▲ 765 60 18 2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO50002284

: 06155944 Unique Number: 10991367

Received : 22 Apr 2024 **Tested** : 23 Apr 2024

: 24 Apr 2024 - Don Baldridge Diagnosed

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, 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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