

OIL ANALYSIS REPORT

Area **Thermoforming** Line 2 Extruder (S/N 266-29810-01-1)

Bevel Helical Gearbox

Fluid SUMMIT UNIPAR FG-320 (55 GAL)

DIAGNOSIS

Recommendation

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

Wear

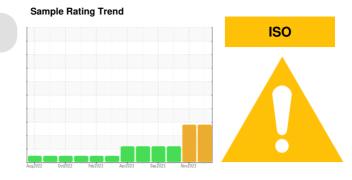
All component wear rates are normal.

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.



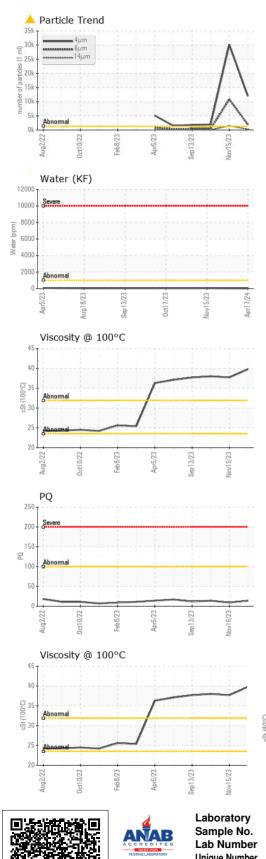
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50002235	TO50001968	TO50001609
Sample Date		Client Info		17 Apr 2024	15 Nov 2023	17 Oct 2023
Machine Age	hrs	Client Info		1000	1000	1000
Oil Age	hrs	Client Info		0	1000	1000
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	9	14
Iron	ppm	ASTM D5185m	>150	3	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	<1	<1
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>50	<1	0	1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		0	1	3
Phosphorus	ppm	ASTM D5185m		425	472	493
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		263	71	112
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	31	14	16
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.1	0.001	0.004	0.004
ppm Water	ppm	ASTM D6304		3	43.7	45.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	11941	▲ 30179	1949
Particles >6µm		ASTM D7647	>320	<u> </u>	1 0840	499
Particles >14µm		ASTM D7647	>80	A 236	🔺 1464	36
Particles >21µm		ASTM D7647	>20	<u> </u>	5 86	12
Particles >38µm		ASTM D7647	>4	1 6	6 8	1
Particles >71µm		ASTM D7647	>3	<u> </u>	<u> </u>	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	A 21/18/15	▲ 22/21/18	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 7:53:21) Bey: 1	mg KOH/g	ASTM D8045		0.63	0.55 Submitted By: Y	0.63

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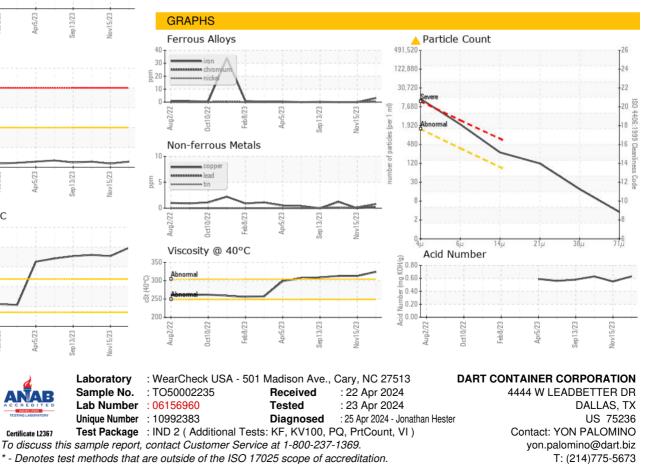
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		324	313	313
Visc @ 100°C	cSt	ASTM D445		39.8	37.7	38.0
Viscosity Index (VI)	Scale	ASTM D2270		175	170	171
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SAMPLE IMAGES		method	limit/base	current	history1	history2
SAMPLE IMAGES			limit/base			



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

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Certificate 12367

Submitted By: YON PALOMINO

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