

OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Number

Sample Date

Sample Rating Trend

method

Client Info

Client Info



history1

11 Jan 2024 15 Nov 2023 17 Oct 2023

TO50001970 TO50001611

Thermoforming Line 8 C Extruder (S/N 4276)

Bevel Helical Gearbox

SUMMIT UNIPAR FG-320 (60 GAL)

Recommendation

DIAGNOSIS

No corrective action is recommended at this time. Resample at the next service interval to monitor.

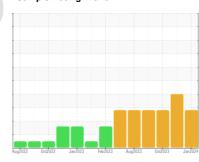
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

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



TO50001539

Sample Date		Client into		11 Jan 2024	13 NOV 2023	17 OCL 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		20	13	12
Iron	ppm	ASTM D5185m	>150	9	2	2
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m	7.0	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm		>25	2	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	0	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium		ASTM D5185m	>10	0	0	0
	ppm				0	0
Cadmium	ppm	ASTM D5185m		0	U	U
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	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		<1	3	4
Phosphorus	ppm	ASTM D5185m		518	513	542
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		786	724	803
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<u> </u>	<u>^</u> 73	▲ 78
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.1	0.004	0.006	0.003
ppm Water	ppm	ASTM D6304	>1000	43	69.3	34.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>1300	136788	<u>42664</u>	<u>^</u> 26819
Particles >6µm		ASTM D7647	>320	<u> </u>	<u>^</u> 2954	<u>▲</u> 1341
Particles >14µm		ASTM D7647	>80	44	<u>^</u> 80	14
Particles >21µm		ASTM D7647	>20	5	△ 35	4
Particles >38µm		ASTM D7647	>4	0	<u>^</u> 6	0
Particles >71µm		ASTM D7647	>3	0	2	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<u>^</u> 24/21/13	_ 23/19/13	<u>△</u> 22/18/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
					2.2.7	,_

0.67

Acid Number (AN)

mg KOH/g ASTM D8045

0.73



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