

OIL ANALYSIS REPORT

Area Berry Plastics - 888068 AG240

Component Gear Unit Fluid GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

A Recommendation

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

Wear

Iron ppm levels are noted.

Contamination

Particles $>4\mu$ m and oil cleanliness are abnormally high. Silicon ppm levels are notably high. Particles $>6\mu$ m are notably high.

The sample submitted is 16 times dirtier than the ISO dirt count recommendation of 19/16/14.

Fluid Condition

Visc @ 40°C is abnormally low.

	Jan2024					
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Extruder B		
Department		Client Info		Sales		
Sample From		Client Info		Machine		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		01/17/2024		
Sample Number		Client Info		E30001164		
Sample Date		Client Info		12 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)	>150	47		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>100	<1		
Copper	ppm	ASTM D5185(m)	>50	<1		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>5	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)	50	16		
Barium	ppm	ASTM D5185(m)	15	0		
Molybdenum	ppm	ASTM D5185(m)	15	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	50	0		
Calcium	ppm	ASTM D5185(m)	50	20		
Phosphorus	ppm	ASTM D5185(m)	350	215		
Zinc	ppm	ASTM D5185(m)		1		
Sulfur	ppm	ASTM D5185(m)	12500	5583		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	A 119		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.1	0.009		
ppm Water	ppm	ASTM D6304*	>1000	97		

Sample Rating Trend

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1.6 Abnormal 1.4

Ba

Acid 1

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Abnorma 0.2 0.0

Jan12/24

Ab

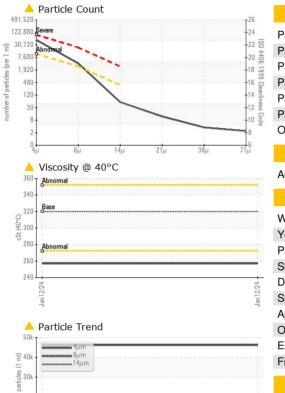
LE

🔺 Silicon (ppm)

Abnorma

Acid Number

OIL ANALYSIS REPORT



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

		2.27	FLUID CLEANLIN	IESS	method	limit/base	,	current	history1	history2
		126 24	Particles >4µm		ASTM D7647			46179		
		-22 80	Particles >6µm		ASTM D7647			3512		
		-20 -18 -16 Cleanliness	Particles >14µm		ASTM D7647		_	49		
		16 999 0	Particles >21µm		ASTM D7647			10		
		-14 leanlin	Particles >38µm			>20		3		
		-12 ss	Particles >71µm		ASTM D7647			2		
		10 Ge	Oil Cleanliness		ISO 4406 (c)			- 23/19/13		
21µ	38µ	71µ	FLUID DEGRADA		method	limit/base		current	history1	history2
			Acid Number (AN)				,	1.01	HISTOLA	nistory2
			. ,	mg KOH/g	ASTM D974*	0.85				
			VISUAL		method	limit/base)	current	history1	history2
			White Metal	scalar	Visual*	NONE		NONE		
			Yellow Metal	scalar	Visual*	NONE		NONE		
			Precipitate	scalar	Visual*	NONE		NONE		
			Silt		Visual*	NONE		NONE		
		an 12/24	Debris	scalar	Visual*	NONE		NONE		
		Jan 1	Sand/Dirt		Visual*	NONE		NONE		
			Appearance	scalar	Visual*	NORML		NORML		
			Odor		Visual*	NORML		NORML		
			Emulsified Water	scalar	Visual*	>0.1		NEG		
			Free Water	scalar	Visual*			NEG		
			FLUID PROPERT	IES	method	limit/base)	current	history1	history2
			Visc @ 40°C	cSt	ASTM D7279(m)	320		257		
			Visc @ 100°C	cSt	ASTM D7279(m)	25.5		30.8		
		24	Viscosity Index (VI)	Scale	ASTM D2270*	103		160		
		Jan12/24	SAMPLE IMAGES	6	method	limit/base	;	current	history1	history2
			Color						no image	no image
			Bottom						no image	no image
		Jan12/24 Jan12/24								
D 17025:2017 Accredited Laboratory	Laborato Sample N Lab Num Unique Nu Test Pac	ry No. Iber Imber kage	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Enviror : E30001164 Recieved : 19 Jan 2024 : 02610039 Diagnosed : 23 Jan 2024 : 5711125 Diagnostician : Tatiana Sorkina : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) contact Customer Service at 1-905-372-2251. of accreditation (m) method mediimed (o) tested at external lab.						onmental 360 Solutions Ltd 640 Victoria Stree Cobourg, ON CA K9A 5H Contact: Tatiana Sorkina tsorkina@e360s.cz	

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