

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Plant US1 Greenville **BNS-6 - Extruder Gearbox**

Component Gearbox Elui SHELL OMALA 320 (--- GAL)

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

				Feb2024			
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		TLC0001530			
Sample Date		Client Info		20 Feb 2024			
Machine Age	hrs	Client Info		0			
Oil Age	hrs	Client Info		0			
Oil Changed		Client Info		N/A			
Sample Status				NORMAL			
CONTAMINATION	N	method	limit/base	current	history1	history2	
Water		WC Method	>0.2	NEG			
WEAR METALS		method	limit/base	current	history1	history2	
PQ		ASTM D8184		53			
Iron	ppm	ASTM D5185m	>200	90			
Chromium	ppm	ASTM D5185m	>15	<1			
Nickel	ppm	ASTM D5185m	>15	1			
Titanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m		0			
Aluminum	ppm	ASTM D5185m	>25	1			
Lead	ppm	ASTM D5185m	>100	<1			
Copper	ppm	ASTM D5185m	>200	2			
Tin	ppm		>25	<1			
Vanadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	5.5	3			
Barium	ppm	ASTM D5185m	0.4	2			
Molybdenum	ppm	ASTM D5185m	0.5	0			
Manganese	ppm	ASTM D5185m		2			
Magnesium	ppm	ASTM D5185m	23	3			
Calcium	ppm	ASTM D5185m	13	17			
Phosphorus	ppm	ASTM D5185m	450	291			
Zinc	ppm	ASTM D5185m	9.9	6			
Sulfur	ppm	ASTM D5185m	8181	13711			
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	7			
Sodium	ppm	ASTM D5185m		5			
Potassium	ppm	ASTM D5185m	>20	2			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	



0.40 0.35

0.35 (B/H0) 80.25 0.20 0.15

Po.10 0.05 0.00 Feb20/24

360

340 ي. 300 کې 280 Abnormal

260

200 Severe

150 2

PQ 250

Abnormal 100 50 0 Feb20/24

OIL ANALYSIS REPORT

Acid Number			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	scalar	*Visual	NONE	NONE		
			Debris	scalar	*Visual	NONE	NONE		
			Sand/Dirt	scalar	*Visual	NONE	NONE		
Feb20/24		Feb20/24	Appearance	scalar	*Visual	NORML	NORML		
Feb		Feb	Odor	scalar	*Visual	NORML	NORML		
Viscosity @ 40°C			Emulsified Water	scalar	*Visual	>0.2	NEG		
Abnormal			Free Water	scalar	*Visual		NEG		
			FLUID PROPER	TIES	method	limit/base	current	history1	history2
Base			Visc @ 40°C	cSt	ASTM D445	320	325		
			SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Abnormal									
Feb20/24		Feb20/24	Color					no image	no image
PQ			Bottom					no image	no image
			GRAPHS						
Abnormal			Ferrous Alloys				PQ		
						22	г		
			80 - iron			2	DO Severe		
Feb20/24		Verue	E 60 - nickel			11	30 -		
Feb 2		Eah 3				10			
			20						
			4 4 2 2 2			1/24	10		
			Feb20/24			Feb20/24			
			Non-ferrous Meta	ls		hallow	00 - Abnormal		
			¹⁰ T				30 -		
			8 - copper				50		
			e 6				10-		
			2				20		
			2						
			20/24			20/24	0)24		/24 -
			Feb20/			Feb20/24	Feb20/24		Feb 20/24
			Viscosity @ 40°C				Acid Number		
			360 Abnormal			₽			
			340 340 Base Base			.0 Acid Number (mg KOH(g) .0	30 -		
			당 320 - Base 중 300			<u>ال</u> اي 0.1	20 -		
			280 Abnormal			Turner 10.	10-		
			260			0.0 Acid	00		
			Feb20/24			Feb20/24	Feb20/24		Feb20/24
	Certificate L2367	Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 50 : TLC0001530 : 06098596 : 10896826 : PLANT	Recei Teste Diagr	ived : 23 id : 26 nosed : 26	y, NC 27513 3 Feb 2024 3 Feb 2024 3 Feb 2024 - \ 3 Feb 2024 - \	MICHELI 14 Wes Davis	Contact: N	E US 1 JN DOCK HURCH ROAD Greenville, SC US 29605 icolas Jackson
			contact Customer Serv					nicolas.jackson(
			are outside of the ISO						T: F·

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

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