

OIL ANALYSIS REPORT



11SHAFT LOUVERS OIL #23 FAN

Component

Hydraulic System

SHELL TELLUS 32 (--- 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

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

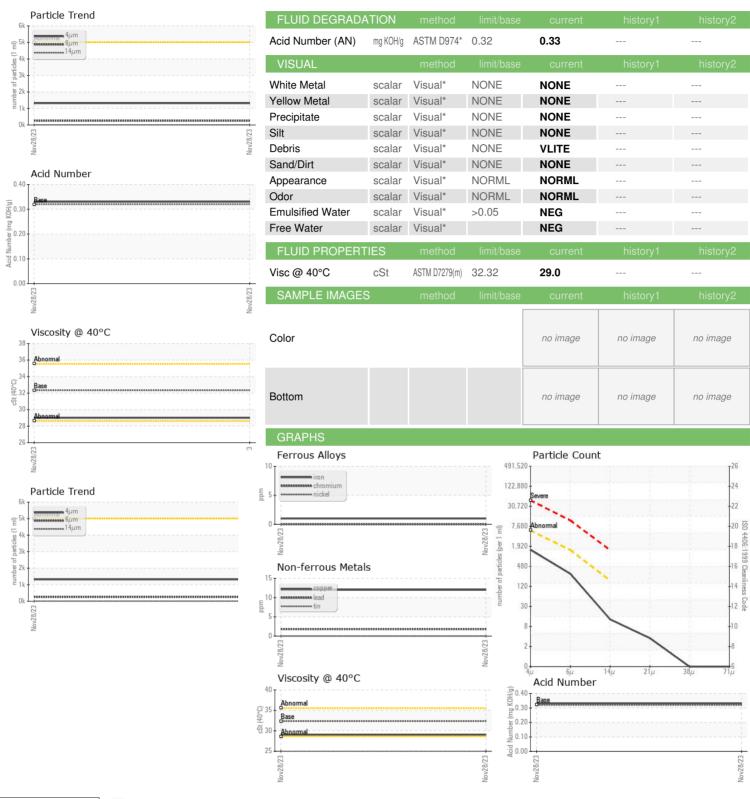
				Nov2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0300589		
Sample Date		Client Info		28 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	2		
Copper	ppm	ASTM D5185(m)		12		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)	<i>></i> 20	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium		ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	11	21		
Calcium	ppm	ASTM D5185(m)	35	30		
Phosphorus	ppm	ASTM D5185(m)	259	202		
Zinc	ppm	ASTM D5185(m)	277	236		
Sulfur	ppm	ASTM D5185(m)	1865	1779		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	·S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID CLEANLI	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1319		
Particles >6µm		ASTM D7647	>1300	254		
Particles >14μm		ASTM D7647	>160	11		
Particles >21µm		ASTM D7647	>40	3		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		

ISO 4406 (c) >19/17/14

Oil Cleanliness



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

Test Package

: IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0300589

: 02607819 : 5708905

Recieved Diagnosed : Wes Davis Diagnostician

: 10 Jan 2024 : 11 Jan 2024

Vale - Creighton Mine CREIGHTON MINE MNTCE. (PLANT 17) COPPER CLIFF, ON

CA P0M 1N0 Contact: Igor Bozhyk igor.bozhyk@vale.com T: (705)682-7009

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

F: x: