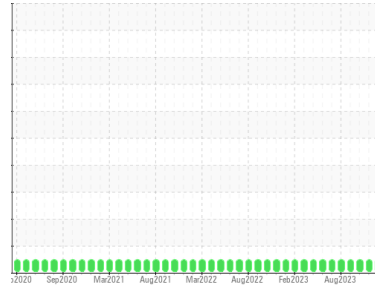




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

Direct Strip Mill/Finishing

Machine Id

#3 DESCALER PUMP LUBE SYSTEM (DSC043) (S/N 100009811)

Component

Gear Lube System

Fluid

SHELL OMALA 68 (150 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0931156	WC0837585	WC0837431
Sample Date	Client Info	11 Jun 2024	18 Jan 2024	14 Nov 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	0
Iron	ppm	ASTM D5185(m) >150	<1	<1
Chromium	ppm	ASTM D5185(m) >10	0	0
Nickel	ppm	ASTM D5185(m) >10	0	<1
Titanium	ppm	ASTM D5185(m)	0	0
Silver	ppm	ASTM D5185(m)	0	0
Aluminum	ppm	ASTM D5185(m) >25	0	<1
Lead	ppm	ASTM D5185(m) >100	0	0
Copper	ppm	ASTM D5185(m) >50	17	4
Tin	ppm	ASTM D5185(m) >10	0	0
Antimony	ppm	ASTM D5185(m) >5	0	0
Vanadium	ppm	ASTM D5185(m)	0	0
Beryllium	ppm	ASTM D5185(m)	0	0
Cadmium	ppm	ASTM D5185(m)	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4	2
Barium	ppm	ASTM D5185(m)	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0
Manganese	ppm	ASTM D5185(m)	0	0
Magnesium	ppm	ASTM D5185(m)	<1	<1
Calcium	ppm	ASTM D5185(m)	<1	3
Phosphorus	ppm	ASTM D5185(m)	140	196
Zinc	ppm	ASTM D5185(m)	8	8
Sulfur	ppm	ASTM D5185(m)	3163	4274
Lithium	ppm	ASTM D5185(m)	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	2	<1
Sodium	ppm	ASTM D5185(m)	<1	0
Potassium	ppm	ASTM D5185(m) >20	<1	<1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.19	0.55

