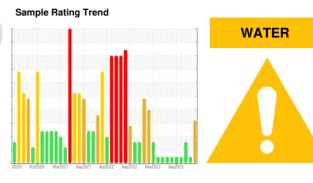


OIL ANALYSIS REPORT

DIRECT STRIP MILL/FINISHING PL8 ROLL BITE LUBE SYSTEM (DSC023) (S/N 1000017405)

Gear Lube System

{not provided} (2000 LTR)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Component wear rates appear to be normal (unconfirmed).

Contamination

There is a moderate concentration of water present in the oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code.

Fluid Condition

The AN level is above the recommended limit. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The oil is no longer serviceable.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0780542	WC0837551	WC0837582
Sample Date		Client Info		18 Apr 2024	28 Feb 2024	18 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	45	14	17
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	<1	<1
Lead	ppm	ASTM D5185(m)	>100	0	0	0
Copper	ppm		>50	2	<1	<1
	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		4	<1	1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		2	<1	2
Calcium	ppm	ASTM D5185(m)		37	<1	3
Phosphorus	ppm	ASTM D5185(m)		1104	1	3
Zinc	ppm	ASTM D5185(m)		26	<1	3
Sulfur	ppm	ASTM D5185(m)		16667	11438	11684
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	45	<1	<1
Sodium	ppm	ASTM D5185(m)		6	2	2
Potassium	ppm	ASTM D5185(m)	>20	24	<1	<1
Water	%	ASTM D6304*	>0.1	0.256		△ 0.394
ppm Water	ppm	ASTM D6304*	>1000	2568		▲ 3941
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1280000	109001	49993	182927
Particles >6µm		ASTM D7647	>640000	35182	12623	44243
Particles >14µm		ASTM D7647	>20000	2727	243	1023
Particles >21µm		ASTM D7647	>5000	606	28	137
Particles >38µm		ASTM D7647	>1300	34	2	2
Particles >71µm		ASTM D7647	>320	4	1	0
Oil Cleanliness		ISO 4406 (c)	>27/26/21	24/22/19	23/21/15	25/23/17



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02630761 Unique Number : 5763893

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT. : WC0780542 Received : 22 Apr 2024

Tested : 25 Apr 2024 Diagnosed : 25 Apr 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: KF, TAN MAN) 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.

301 WALLACE TERRACE SAULT STE MARIE, ON **CA P6C 1K8**

Contact: Algoma Reliability algomareliability@algoma.com T: (705)206-1059

F: (705)945-3585