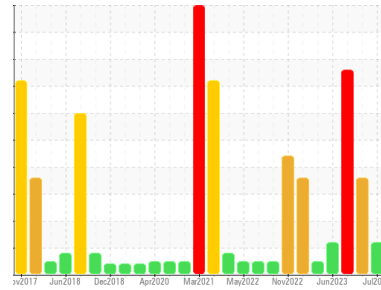




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
106 Mill
 Machine Id
106 MILL MOTOR STAND (PLS078)
 Component
Bearing Lube
 Fluid
PETRO CANADA TURBOFLO R&O 68 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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 a light amount of silt (particulates < 14 microns in size) present 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		WC0689908	WC0837362	WC0837495
Sample Date	Client Info		01 Jul 2024	06 Apr 2024	24 Aug 2023
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			ATTENTION	ABNORMAL	SEVERE

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m) >120	<1	2	3
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >20	<1	<1	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >4	<1	0	0
Lead	ppm	ASTM D5185(m) >30	8	10	26
Copper	ppm	ASTM D5185(m) >17	5	5	3
Tin	ppm	ASTM D5185(m) >10	<1	<1	5
Antimony	ppm	ASTM D5185(m)	0	0	3
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

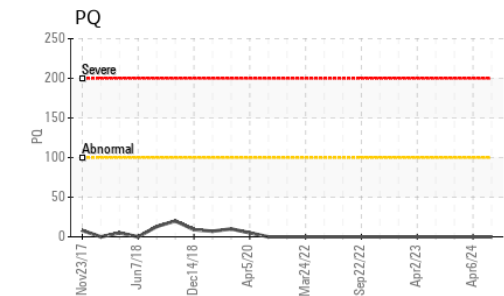
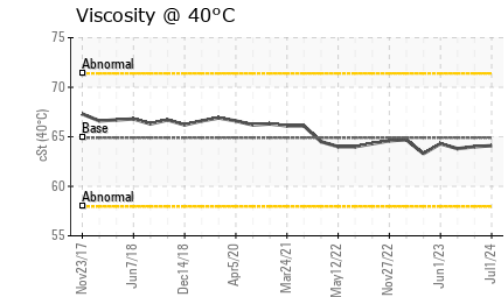
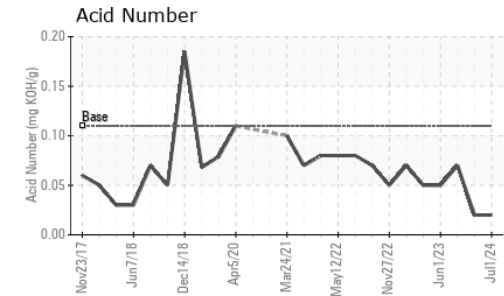
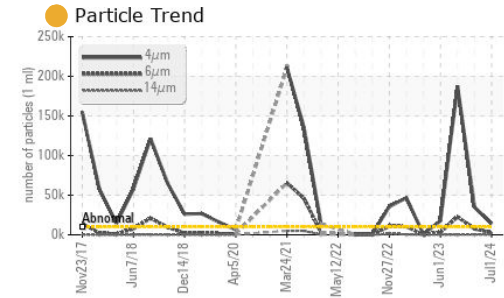
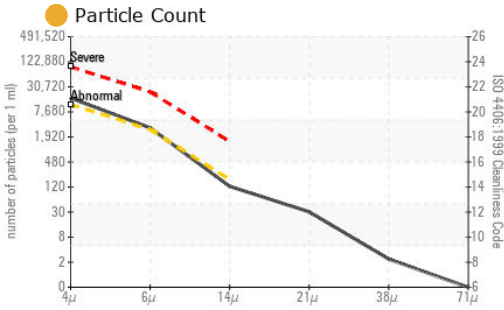
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	0	<1
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	<1
Calcium	ppm	ASTM D5185(m) 0	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m) 4	12	15	16
Zinc	ppm	ASTM D5185(m) 0	6	9	11
Sulfur	ppm	ASTM D5185(m)	210	190	199
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	0	0	0
Sodium	ppm	ASTM D5185(m)	0	<1	<1
Potassium	ppm	ASTM D5185(m) >20	0	0	<1



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0689908
Lab Number : 02645663
Unique Number : 5803202
Test Package : IND 2 (Additional Tests: PQ, PrtCount, TAN Man)

ALGOMA STEEL INC. - STORES DEPT.
 301 WALLACE TERRACE
 SAULT STE MARIE, ON
 CA P6C 1K8
 Contact: Algoma Reliability
 algomareliability@algoma.com
 T: (705)206-1059
 F: (705)945-3585

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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	● 14227	▲ 34703	▲ 187571
Particles >6µm	ASTM D7647	>2500	● 2773	▲ 7510	▲ 22792
Particles >14µm	ASTM D7647	>160	● 110	● 298	132
Particles >21µm	ASTM D7647	>40	● 27	● 58	13
Particles >38µm	ASTM D7647	>10	● 2	5	0
Particles >71µm	ASTM D7647	>3	● 0	1	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	● 21/19/14	▲ 22/20/15	▲ 25/22/14

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.11	● 0.02	0.02	0.07

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	● NONE	NONE	VLITE
Yellow Metal	scalar Visual*	NONE	● NONE	NONE	NONE
Precipitate	scalar Visual*	NONE	● NONE	NONE	NONE
Silt	scalar Visual*	NONE	● NONE	NONE	LIGHT
Debris	scalar Visual*	NONE	● NONE	VLITE	▲ LIGHT
Sand/Dirt	scalar Visual*	NONE	● NONE	NONE	NONE
Appearance	scalar Visual*	NORML	● NORML	NORML	▲ WGOIL
Odor	scalar Visual*	NORML	● NORML	NORML	NORML
Emulsified Water	scalar Visual*	>0.2	● NEG	.2%	.5%
Free Water	scalar Visual*		● NEG	▲ 1%	▲ 1%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	64.9	● 64.1	64.0	63.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

