

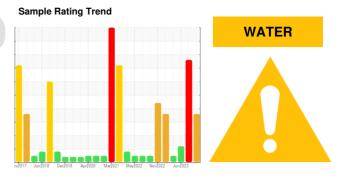
OIL ANALYSIS REPORT

106 Mill

106 MILL MOTOR STAND (PLS078)

Bearing Lube

PETRO CANADA TURBOFLO R&O 68 (--- GAL)



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 follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Free water present.

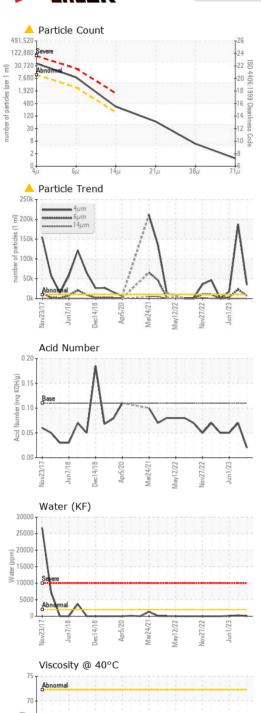
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

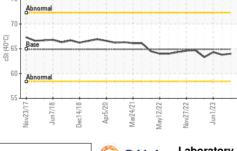
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837362	WC0837495	WC0496455
Sample Date		Client Info		06 Apr 2024	24 Aug 2023	01 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	0	Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>120	2	3	2
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)		<1	0	0
Titanium	ppm	ASTM D5185(m)	>20	0	0	0
Silver		ASTM D5185(m)		0	0	0
Aluminum	ppm		>4	0	0	0
Lead	ppm	ASTM D5185(m) ASTM D5185(m)		10	26	19
	ppm	\ /	>30	-	3	2
Copper	ppm	ASTM D5185(m)	>17	5		
Tin	ppm	ASTM D5185(m)	>10	<1	5	<1
Antimony	ppm	ASTM D5185(m)		0	3	<1
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)		0	<1	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		<1	<1	0
Calcium	ppm	ASTM D5185(m)	0	<1	<1	0
Phosphorus	ppm	ASTM D5185(m)	4	15	16	17
Zinc	ppm	ASTM D5185(m)	0	9	11	14
Sulfur	ppm	ASTM D5185(m)		190	199	219
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)		<1	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Water	%	ASTM D6304*	>0.2	0.008	0.025	0.009
ppm Water	ppm	ASTM D6304*	>2000	87	253.5	94.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	▲ 34703	▲ 187571	17712
Particles >6µm		ASTM D7647		^ 7510	▲ 22792	3150
Particles >14µm		ASTM D7647	>160	298	132	115
Particles >21µm		ASTM D7647		58	13	22
Particles >38µm		ASTM D7647	>10	5	0	1
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)		<u>^</u> 22/20/15	▲ 25/22/14	21/19/14
9:09:20) Kev: 2	Col	ntact/Locatio	n: Maintena	nce Technology	/ - Algoma Relia	bility - ALGSSM



OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.11	0.02	0.07	0.05
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	LIGHT	NONE
Debris	scalar	Visual*	NONE	VLITE	▲ LIGHT	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	.2%	.5%	.2%
Free Water	scalar	Visual*		<u> </u>	1 %	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	CSt	method ASTM D7279(m)	limit/base 64.9	current 64.0	history1 63.8	history2 64.3
	cSt					•
Visc @ 40°C	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1	64.3
Visc @ 40°C	cSt	ASTM D7279(m)	64.9	64.0	63.8	64.3
Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1	64.3
Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1	64.3
Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1	64.3
Visc @ 40°C SAMPLE IMAGES Color	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1 wcos374ss	64.3
Visc @ 40°C SAMPLE IMAGES Color	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1 wcos374ss	64.3
Visc @ 40°C SAMPLE IMAGES Color	cSt	ASTM D7279(m)	64.9	64.0	63.8 history1 WC083745	64.3



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number : 02628175

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT.

: WC0837362 Received : 11 Apr 2024 **Tested** : 15 Apr 2024 Unique Number : 5761307 Diagnosed : 15 Apr 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount, 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.

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