

OIL ANALYSIS REPORT

Sample Rating Trend

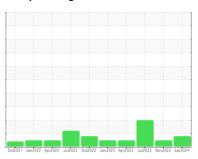
ISO

Reversing Mill

[Reversing Mill] 115185-NORTH COIL CAR HYDRAULIC

Component Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

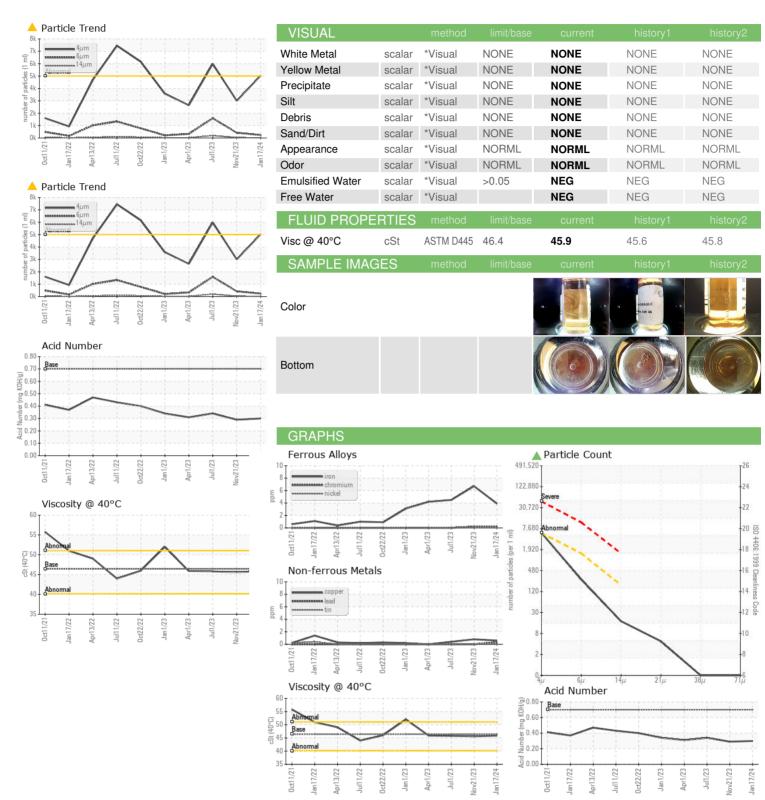
Fluid Condition

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

)		Oct2021 Jan2	022 Apr2022 Jul2022 Oct2	022 Jan2023 Apr2023 Jul2023 Nov2	023 Jan2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112926	PCA0101618	PCA0095415
Sample Date		Client Info		17 Jan 2024	21 Nov 2023	01 Jul 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	NORMAL	ATTENTION
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	7	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	2	4	0
Calcium	ppm	ASTM D5185m	50	59	79	58
Phosphorus	ppm	ASTM D5185m	330	389	449	345
Zinc	ppm	ASTM D5185m	430	419	562	443
Sulfur	ppm	ASTM D5185m	760	970	1031	938
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	1	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANI	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	5037	3001	▲ 5993
Particles >6µm		ASTM D7647	>1300	235	421	▲ 1592
Particles >14µm		ASTM D7647	>160	15	30	1 91
Particles >21µm		ASTM D7647	>40	4	8	▲ 62
Particles >38µm		ASTM D7647	>10	0	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/11	19/16/12	2 0/18/15
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.30	0.29	0.34



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Certificate L2367

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

: 06065006 : 10836388 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0112926 Recieved : 18 Jan 2024

Diagnosed Diagnostician

: 22 Jan 2024 : Don Baldridge SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802

Contact: BRAD ELLIS

brad.ellis@steeldynamics.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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