

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Reversing Mill

[Reversing Mill] 140020-HIGH PRESSURE HPU

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

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RESSURE HPU										
	Oct2021	Jan 2022	Apr2022	Jul2022	Oct2022	Jan 2023	Apr2023	Jul2023	Nov2023	
SAMPLE INFORMATION	method									

Sample Number		Client Info		PCA0107708	PCA0101570	PCA0095395	
Sample Date		Client Info		21 Nov 2023	01 Jul 2023	01 Apr 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	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	<1	<1	1	
Chromium	ppm	ASTM D5185m	>20	<1	0	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	0	<1	
Lead	ppm	ASTM D5185m	>20	0	0	0	
Copper	ppm	ASTM D5185m	>20	10	9	10	
Tin	ppm	ASTM D5185m	>20	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1	
Manganese	ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	0	3	0	5	
Calcium	ppm	ASTM D5185m	50	58	52	61	
Phosphorus	ppm	ASTM D5185m	330	367	345	346	
Zinc	ppm	ASTM D5185m	430	441	421	429	
Sulfur	ppm	ASTM D5185m	760	933	1084	1056	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1	
Sodium	ppm	ASTM D5185m		0	<1	<1	
Potassium	ppm	ASTM D5185m	>20	<1	0	<1	
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG	
FLUID CLEANL	INESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	148	339	215	
Particles >6µm		ASTM D7647	>1300	50	125	62	
Particles >14µm		ASTM D7647	>160	6	19	5	
Particles >21µm		ASTM D7647	>40	3	4	1	
Particles >38μm		ASTM D7647	>10	0	1	0	
Particles >71μm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	16/14/11	15/13/10	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	

0.24

0.29

Contact/Location: BRAD ELLIS - SDITER

Acid Number (AN)

mg KOH/g ASTM D8045 0.70

0.25



OIL ANALYSIS REPORT







Report Id: SDITER [WUSCAR] 06015035 (Generated: 11/26/2023 10:07:44) Rev: 1

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

: 10754179 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 22 Nov 2023 : PCA0107708 Received : 06015035 Diagnosed

: 26 Nov 2023 Diagnostician : Don Baldridge SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802

Contact: BRAD ELLIS brad.ellis@steeldynamics.com

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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