

OIL ANALYSIS REPORT

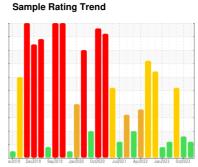
Area **Utilities** Machine Id

Keeler Electric Feedwater Pump

Component

Reservoir Pump

PETRO CANADA HYDREX AW 46 (60 GAL)





DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

▲ Contamination

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

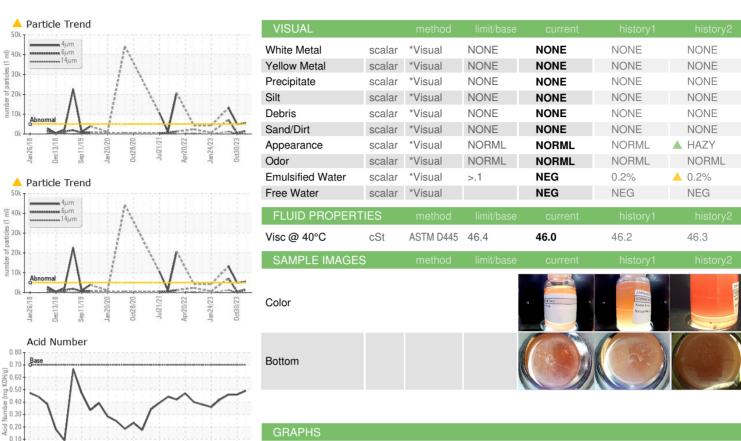
Fluid Condition

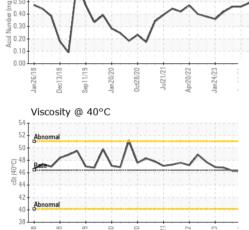
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

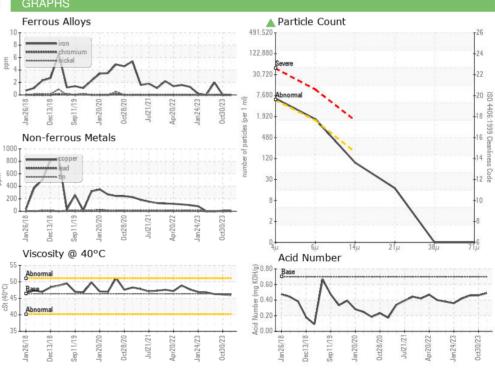
)		in2018 Dec20	18 Sep2019 Jan2020 O	t2020 Jul2021 Apr2022 Jan202	23 Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0783917	WC0726077	WC0816922
Sample Date		Client Info		24 Jan 2024	30 Oct 2023	26 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	0	2
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m		0	0	<1
Lead	ppm	ASTM D5185m	>12	<1	2	2
Copper	ppm	ASTM D5185m		10	10	0
Tin	ppm	ASTM D5185m	>9	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES	ррпп	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
-	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm			0	<1	1
Magnesium	ppm	ASTM D5185m	0	-	1	1
Calcium	ppm	ASTM D5185m	50	0		
Phosphorus	ppm	ASTM D5185m	330	307	314	258
Zinc	ppm	ASTM D5185m	430	300	332	366
Sulfur	ppm	ASTM D5185m	760	742	800	927
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m		0	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 5513	4904	<u> </u>
Particles >6µm		ASTM D7647	>1300	1424	424	<u></u> 7161
Particles >14µm		ASTM D7647	>160	81	16	<u> </u>
Particles >21µm		ASTM D7647	>40	15	8	<u>▲</u> 411
Particles >38µm		ASTM D7647	>10	0	5	△ 63
Particles >71µm		ASTM D7647	>3	0	0	<u>^</u> 6
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	19/16/11	△ 21/20/17
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.49	0.46	0.46



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

: WC0783917 : 06075708 : 10857799

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved Diagnosed Diagnostician Test Package : IND 2 (Additional Tests: PrtCount)

: 31 Jan 2024 : 01 Feb 2024 : Don Baldridge

INGREDION INC WINSTON SALEM PLANT, 4501 OVERDALE ROAD WINSTON SALEM, NC US 27107

Contact: MATTHEW KING matthew.king@ingredion.com

T: F: (336)785-8809

Certificate L2367

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)

Report Id: CORWIN [WUSCAR] 06075708 (Generated: 02/01/2024 18:35:34) Rev: 1

Contact/Location: MATTHEW KING - CORWIN