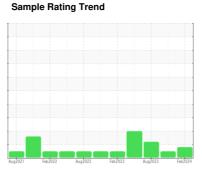


OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 585175-DLVRY EDGE GUIDE

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.

Wear

All component wear rates are normal.

▲ Contamination

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

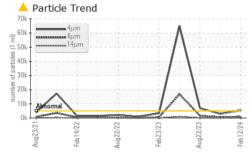
Fluid Condition

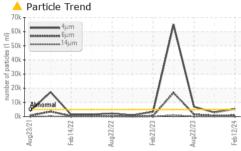
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

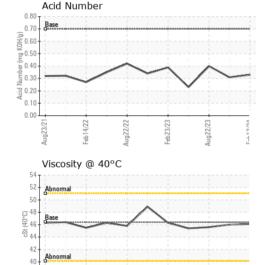
)		Aug2021	Feb2022 Aug2022	Feb2023 Aug2023	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113011	PCA0107657	PCA0101439
Sample Date		Client Info		12 Feb 2024	26 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	4	3	0
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	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	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	5	<1
Calcium	ppm	ASTM D5185m	50	51	53	54
Phosphorus	ppm	ASTM D5185m	330	275	319	343
Zinc	ppm	ASTM D5185m	430	405	420	441
Sulfur	ppm	ASTM D5185m	760	1046	1092	968
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANI	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	5370	2896	▲ 6956
Particles >6µm		ASTM D7647	>1300	893	562	1580
Particles >14μm		ASTM D7647	>160	25	20	79
Particles >21µm		ASTM D7647	>40	5	3	17
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/12	19/16/11	2 0/18/13
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.33	0.31	0.40



OIL ANALYSIS REPORT



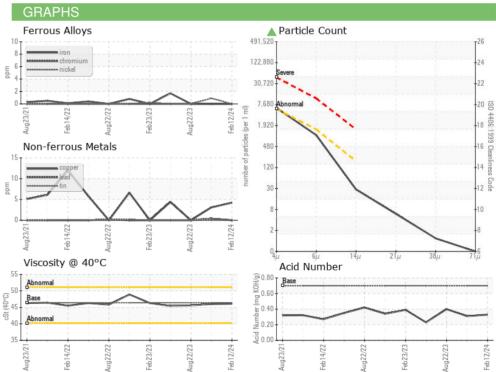




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.4	46.1	46.0	45.6

_					
SAMPLE IMAGES	method	limit/base	current	history1	history2
				Picke ₁₈ 585115	11
Color			Die Pis	DL VREE	

Bottom





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Certificate L2367

Laboratory

Aug22/23

-eb23/23

Sample No.

Lab Number : 06088138 Unique Number: 10875583 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0113011 Received : 13 Feb 2024

Tested Diagnosed

: 15 Feb 2024 : 15 Feb 2024 - 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)

T:

F: