

OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 585315-DLVRY AUXILIARY HPU

Component Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

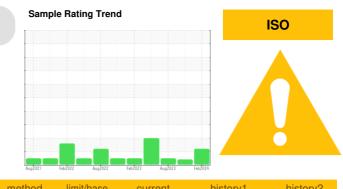
All component wear rates are normal.

Contamination

There is a high 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.



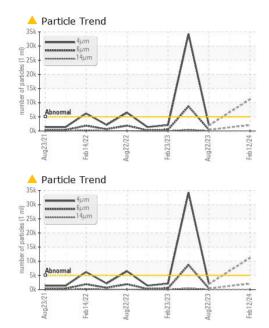
			1			
SAMPLE INFOR	VIATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112943	PCA0107659	PCA0101441
Sample Date		Client Info		12 Feb 2024	26 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
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	<1	8	0
Copper	ppm	ASTM D5185m	>20	8	16	0
Tin	ppm	ASTM D5185m	>20	0	<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	<1	3	<1
Calcium	ppm	ASTM D5185m	50	40	39	54
Phosphorus	ppm	ASTM D5185m	330	276	334	337
Zinc	ppm	ASTM D5185m	430	384	385	436
Sulfur	ppm	ASTM D5185m	760	955	1170	950
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEAN	<u>-INESS</u>	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 11188		1942
Particles >6µm		ASTM D7647	>1300	<u> </u>		423
Particles >14µm		ASTM D7647	>160	72		26
Particles >21µm		ASTM D7647	>40	12		6
Particles >38µm		ASTM D7647	>10	1		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/18/13		18/16/12
FLUID DEGRAD		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.22	0.22	0.39

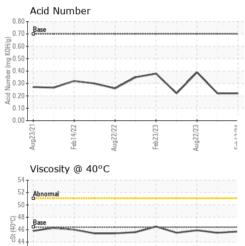


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method

VISUAL





B

Abn

Aug23/21

Feb 14/22

ug22/22

42

40

38

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	🔺 MODER	NONE
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	45.7	45.5	45.9
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color					Pičkey, 55333 Di Vers Perso Advers	13

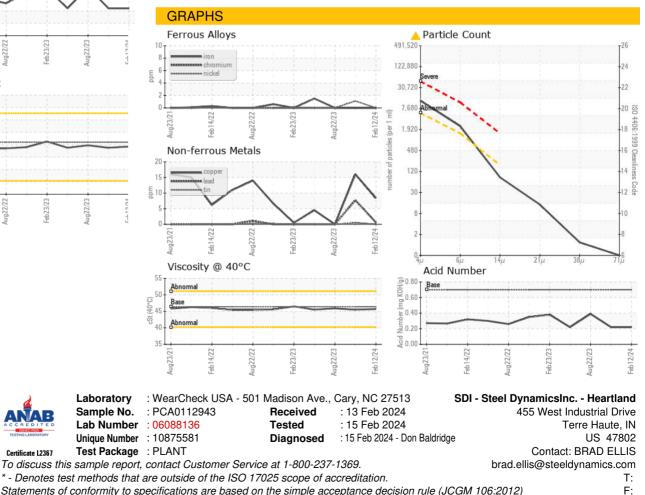
limit/base

current

history1

history2

Bottom



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

Certificate L2367

Aug22/23 .

Feb23/23

Contact/Location: BRAD ELLIS - SDITER