

Machine Id
SCHWING #1 (S/N 11.60.190.390)
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 46 (1200 LTR)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0058423	PC0058325	PC383421
Sample Date	Client Info			09 Jul 2024	16 Jan 2023	15 Aug 2017
Machine Age	hrs	Client Info		66874	62208	41205
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			Not Chngd	Not Chngd	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	NEG	NEG	NEG

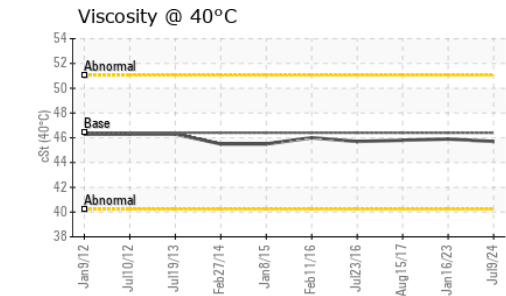
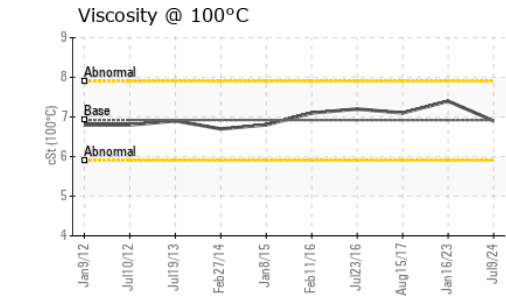
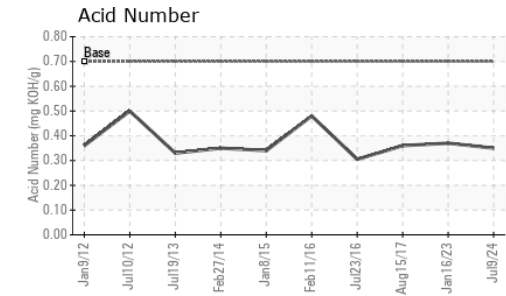
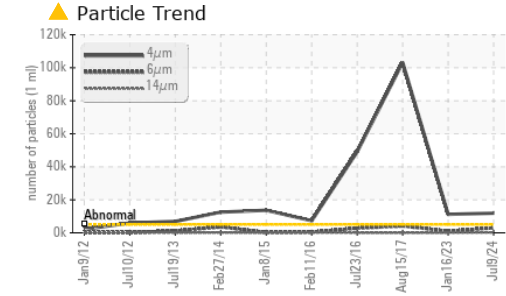
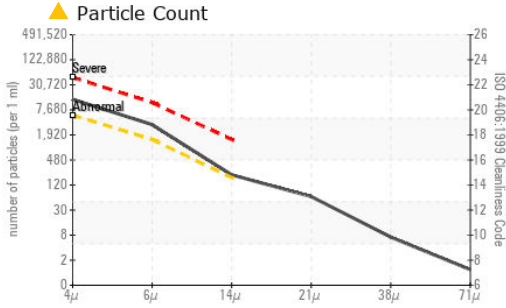
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	1	3	13
Chromium	ppm	ASTM D5185(m)	>20	1	2	11
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		2	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	1
Lead	ppm	ASTM D5185(m)	>20	2	4	6
Copper	ppm	ASTM D5185(m)	>20	37	108	60
Tin	ppm	ASTM D5185(m)	>20	<1	<1	3
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	0
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	0	<1
Calcium	ppm	ASTM D5185(m)	50	54	45	138
Phosphorus	ppm	ASTM D5185(m)	330	356	339	237
Zinc	ppm	ASTM D5185(m)	430	457	344	293
Sulfur	ppm	ASTM D5185(m)	760	802	738	665
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	1	4
Sodium	ppm	ASTM D5185(m)		0	0	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	11916	11181	103154	
Particles >6µm	ASTM D7647	>1300	2963	975	4150	
Particles >14µm	ASTM D7647	>160	186	31	14	
Particles >21µm	ASTM D7647	>40	56	8	3	
Particles >38µm	ASTM D7647	>10	6	0	0	
Particles >71µm	ASTM D7647	>3	1	0	0	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	21/19/15	21/17/12	24/19/11	

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0058423
Lab Number : 02647825
Unique Number : 5813377
Test Package : IND 2 (Additional Tests: KV100, VI)

ONTARIO CLEAN WATER AGENCY- SOUTH PEEL FACILITIES
 1300 LAKESHORE RD
 MISSISSAUGA, ON
 CA L5E 1E9
 Contact: Angelo Magnifico
 amagnifico@ocwa.com
 T: (905)274-1223
 F: (905)274-2076

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	0.35	0.37	0.36

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	VLITE	NONE	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	45.7	45.9	45.8
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	6.9	7.4	7.1
Viscosity Index (VI)	Scale	ASTM D2270*	104	106	124	113

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter						