

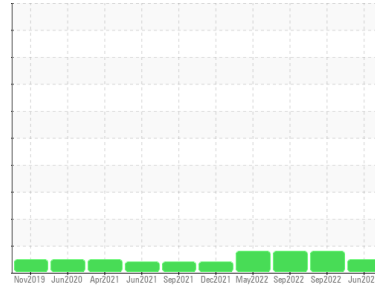
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
VOLVO EC380EL 100243 (S/N 311570)
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (325 LTR)



DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

Fluid Condition

Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0061681	PC0062301	PC0062281
Sample Date	Client Info		26 Jun 2023	10 Sep 2022	01 Sep 2022
Machine Age	hrs	Client Info	6721	6008	3988
Oil Age	hrs	Client Info	704	2880	2860
Oil Changed	Client Info		Not Chngd	Changed	Not Chngd
Sample Status			NORMAL	ABNORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >25	14	11	14
Chromium	ppm	ASTM D5185(m) >10	2	1	3
Nickel	ppm	ASTM D5185(m) >10	<1	0	<1
Titanium	ppm	ASTM D5185(m)	<1	<1	<1
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >20	2	2	5
Lead	ppm	ASTM D5185(m) >20	<1	<1	1
Copper	ppm	ASTM D5185(m) >150	16	10	21
Tin	ppm	ASTM D5185(m) >10	<1	<1	<1
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	6	6	10
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 0	5	5	6
Manganese	ppm	ASTM D5185(m) 1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	60	58	77
Calcium	ppm	ASTM D5185(m) 100	177	171	203
Phosphorus	ppm	ASTM D5185(m) 670	641	620	589
Zinc	ppm	ASTM D5185(m) 850	751	719	651
Sulfur	ppm	ASTM D5185(m) 1600	1654	1601	1746
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	8	7	15
Sodium	ppm	ASTM D5185(m)	2	1	2
Potassium	ppm	ASTM D5185(m) >20	2	<1	2

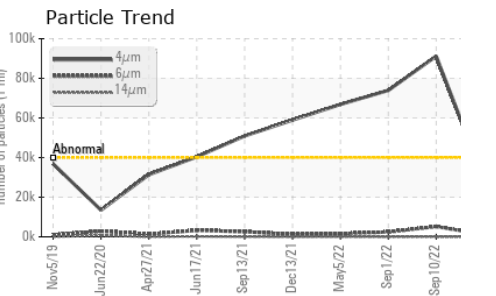
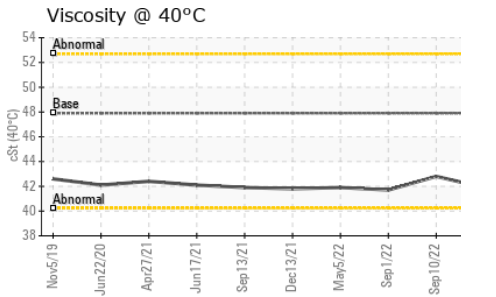
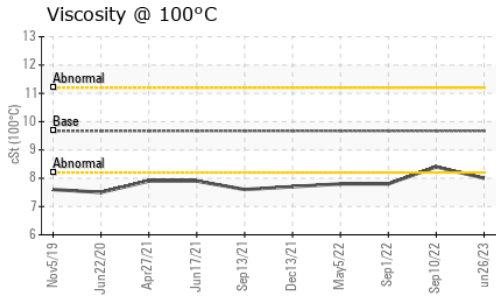
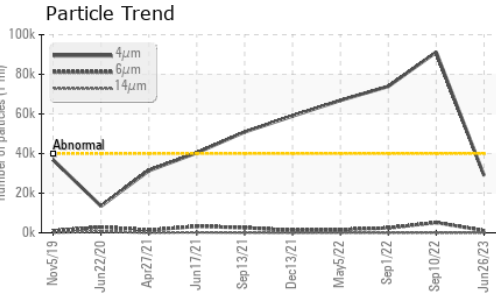
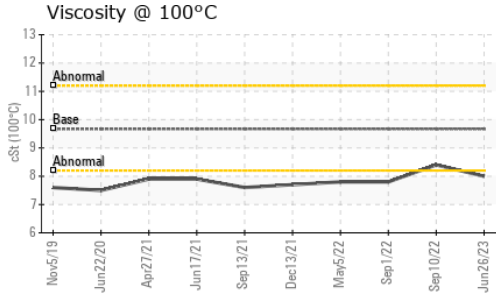
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>40000	28950	▲ 91207	▲ 73913
Particles >6µm	ASTM D7647	>10000	1094	5182	2440
Particles >14µm	ASTM D7647	>2500	52	30	5
Particles >21µm	ASTM D7647	>640	9	4	2
Particles >38µm	ASTM D7647	>160	0	0	0
Particles >71µm	ASTM D7647	>40	0	0	0
Oil Cleanliness	ISO 4406 (c)	>22/20/18	22/17/13	▲ 24/20/12	▲ 23/18/10

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.60	0.75	0.91	0.85

OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	41.9	42.8	41.7
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	8	8.4	7.8
Viscosity Index (VI)	Scale	ASTM D2270*	192	166	176	159

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0061681 **Received** : 12 Jul 2023
Lab Number : 02569368 **Diagnosed** : 13 Jul 2023
Unique Number : 5606414 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KV100, VI)

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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.