

Machine Id
ELION U1-43

Component
Hydraulic System

Fluid
PETRO CANADA PURITY FG HYDRAULIC AW 68 (400 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORMATION method limit/base current history 1 history 2

Sample Number	Client Info	PC0030281	---	---
Sample Date	Client Info	30 Mar 2023	---	---
Machine Age	hrs Client Info	46382	---	---
Oil Age	hrs Client Info	46382	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

WEAR METALS method limit/base current history 1 history 2

Iron	ppm	ASTM D5185(m)	>20	1	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>20	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	0	---	---
Lead	ppm	ASTM D5185(m)	>20	0	---	---
Copper	ppm	ASTM D5185(m)	>20	<1	---	---
Tin	ppm	ASTM D5185(m)	>20	0	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES method limit/base current history 1 history 2

Boron	ppm	ASTM D5185(m)		<1	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		0	---	---
Calcium	ppm	ASTM D5185(m)		12	---	---
Phosphorus	ppm	ASTM D5185(m)		362	---	---
Zinc	ppm	ASTM D5185(m)		12	---	---
Sulfur	ppm	ASTM D5185(m)		1393	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS method limit/base current history 1 history 2

Silicon	ppm	ASTM D5185(m)	>15	4	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---

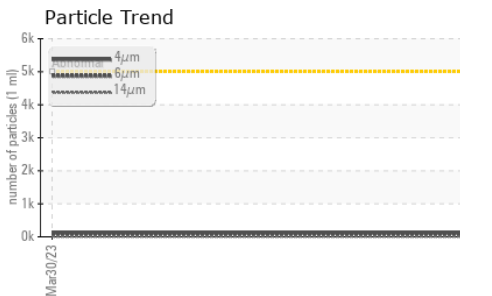
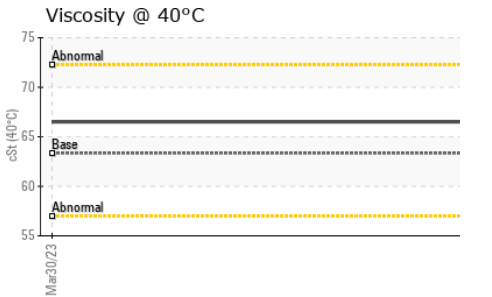
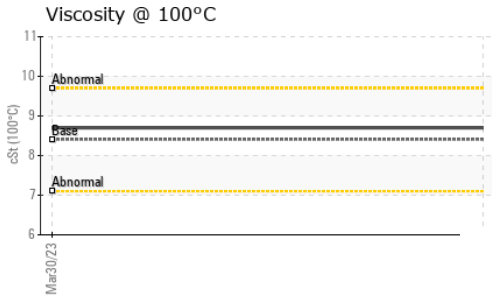
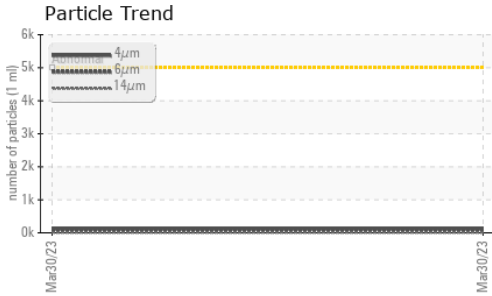
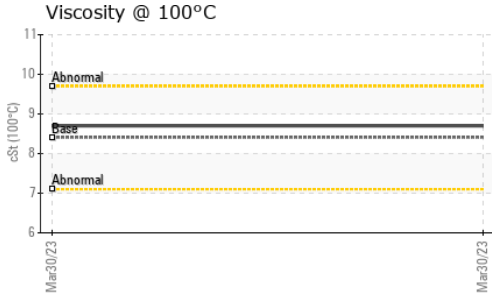
FLUID CLEANLINESS method limit/base current history 1 history 2

Particles >4µm	ASTM D7647	>5000	118	---	---
Particles >6µm	ASTM D7647	>1300	45	---	---
Particles >14µm	ASTM D7647	>160	8	---	---
Particles >21µm	ASTM D7647	>40	4	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	14/13/10	---	---

FLUID DEGRADATION method limit/base current history 1 history 2

Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	0.15	---	---
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OIL ANALYSIS REPORT

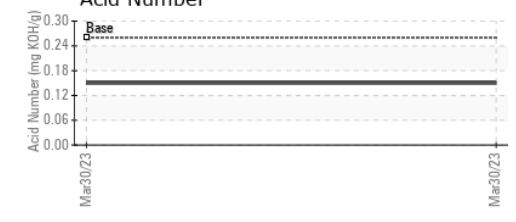
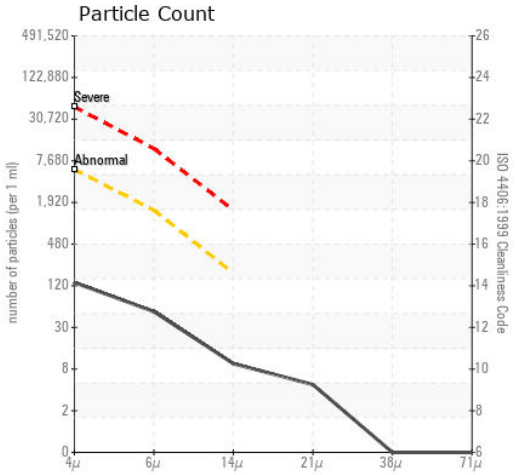


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	63.34	66.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.409	8.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	102	102	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0030281
Lab Number : 02569068
Unique Number : 5606114
Test Package : IND 2 (Additional Tests: KV100, VI)

North America IML Container
 2625, Route 344
 St. Placide, QC
 CA J0V 2B0
 Contact: Corinna Bouchard
 cbouchard@iml.ca
 T: (450)258-3130
 F: (450)258-3345

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.