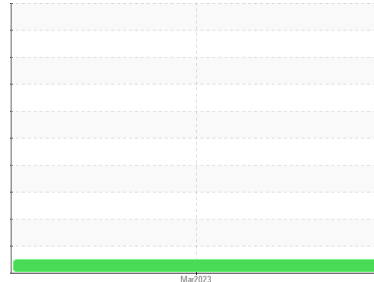


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
ELION U1-42

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	PC0030286	---	---
Sample Date	Client Info	30 Mar 2023	---	---
Machine Age	hrs Client Info	55239	---	---
Oil Age	hrs Client Info	55239	---	---
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	0	---	---
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)		<1	---	---
Calcium ppm ASTM D5185(m)		1	---	---
Phosphorus ppm ASTM D5185(m)		350	---	---
Zinc ppm ASTM D5185(m)		6	---	---
Sulfur ppm ASTM D5185(m)		515	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>15	1	---	---
Sodium ppm ASTM D5185(m)		0	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---

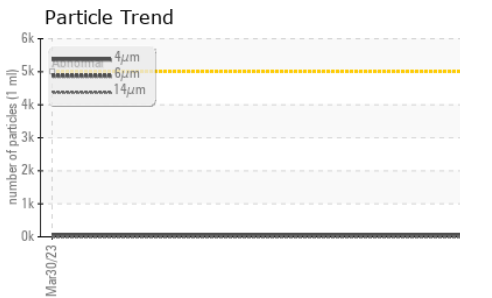
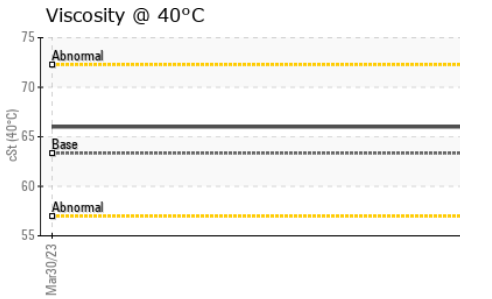
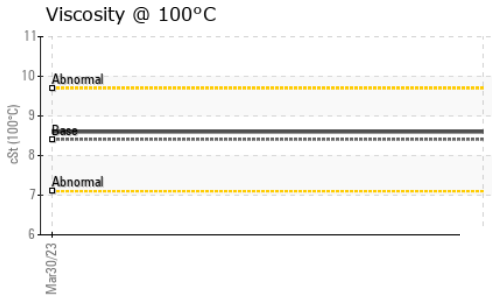
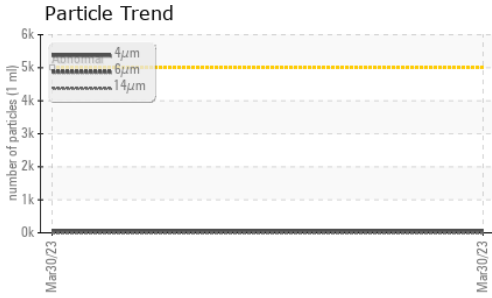
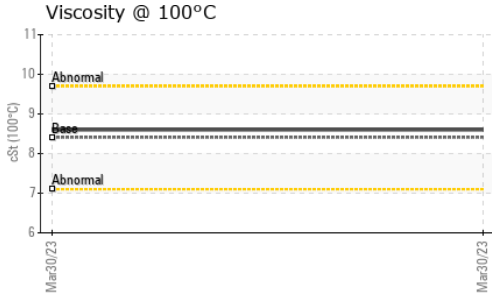
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm ASTM D7647	>5000	61	---	---
Particles >6µm ASTM D7647	>1300	23	---	---
Particles >14µm ASTM D7647	>160	4	---	---
Particles >21µm ASTM D7647	>40	1	---	---
Particles >38µm ASTM D7647	>10	0	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	13/12/9	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g ASTM D974*	0.26	0.15	---	---

OIL ANALYSIS REPORT

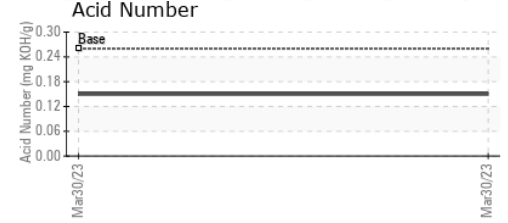
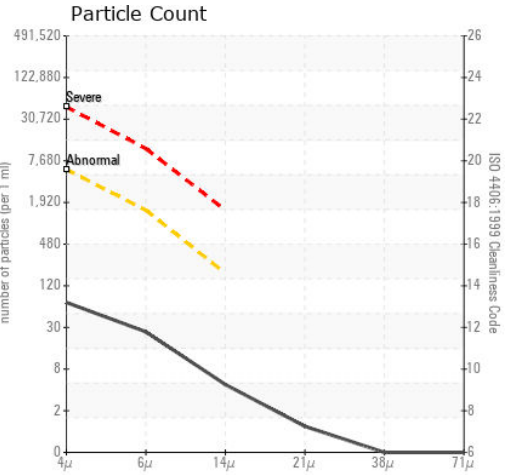
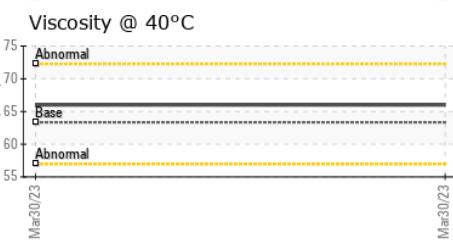


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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	66.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.409	8.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	102	101	---

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. : PC0030286 **Received** : 11 Jul 2023
Lab Number : 02569107 **Diagnosed** : 12 Jul 2023
Unique Number : 5606153 **Diagnostician** : Wes Davis
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.