



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id

**ELION UI P40**

Component

**Hydraulic System**

Fluid

**PETRO CANADA PURITY FG HYDRAULIC AW 68 (415 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0030282</b>	---	---
Sample Date		Client Info		<b>30 Mar 2023</b>	---	---
Machine Age	hrs	Client Info		<b>59646</b>	---	---
Oil Age	hrs	Client Info		<b>59646</b>	---	---
Filter Age	hrs	Client Info		<b>59646</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

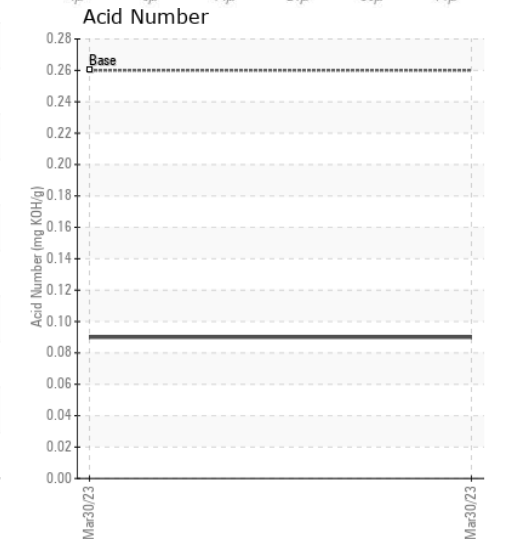
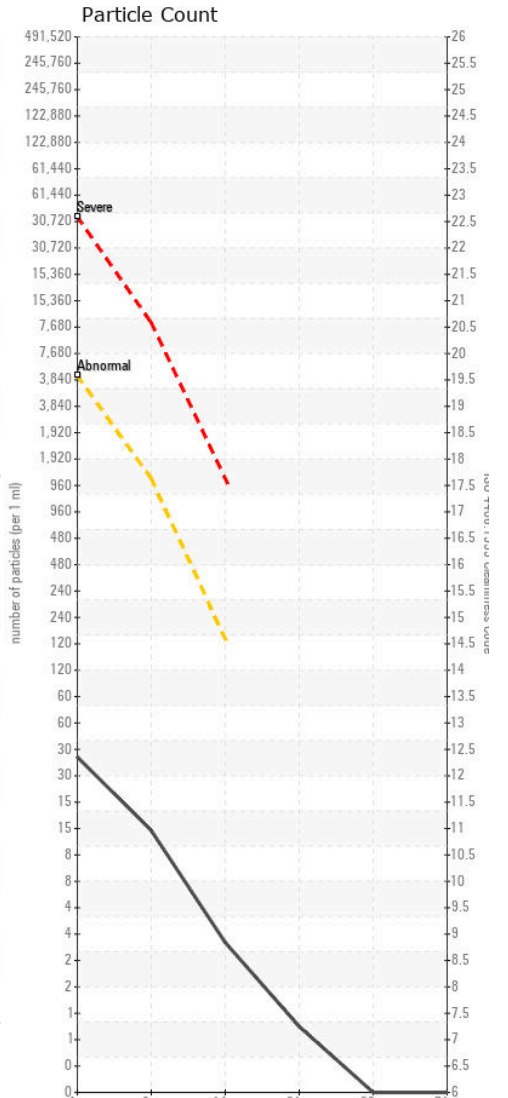
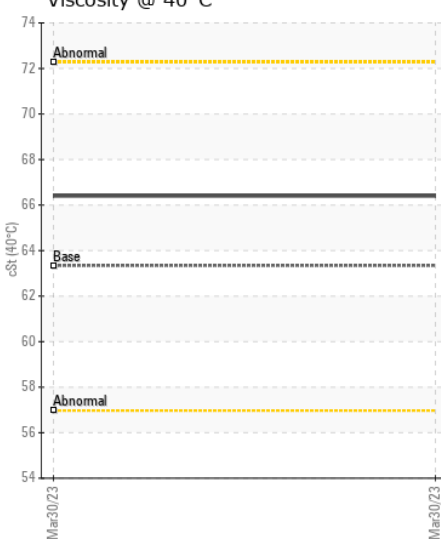
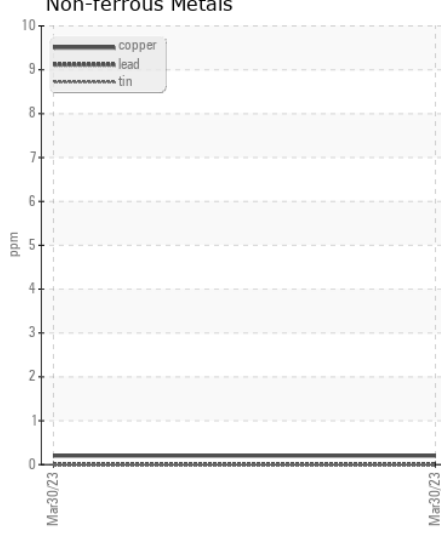
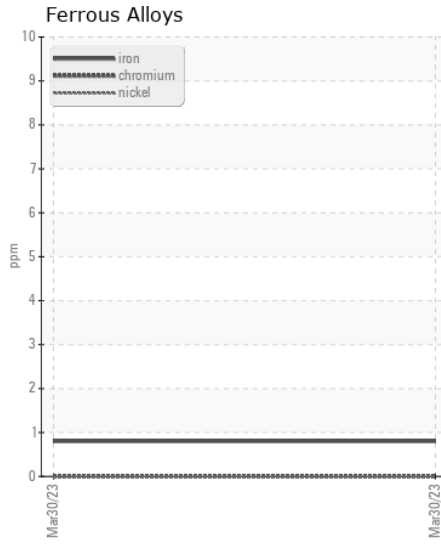
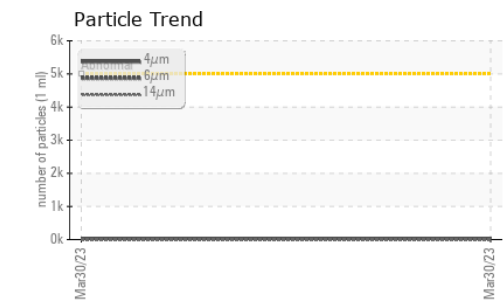
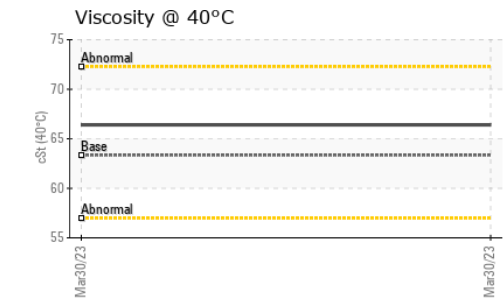
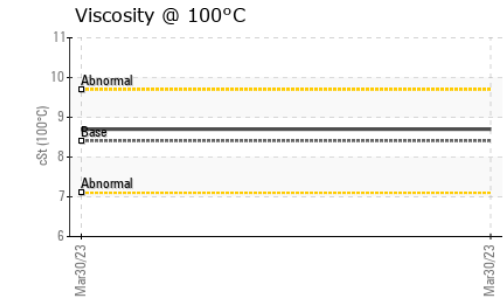
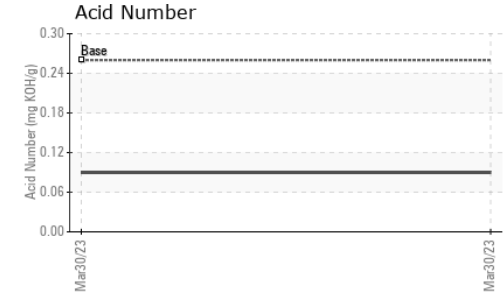
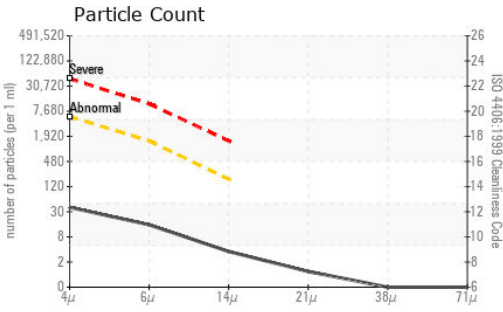
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Water		WC Method	>0.05	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>5000	<b>34</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>13</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>3</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>1</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>12/11/9</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>1</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>339</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>14</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>442</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	<b>0.09</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	63.34	<b>66.4</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.409	<b>8.7</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	102	<b>102</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0030282 **Received** : 11 Jul 2023  
**Lab Number** : 02569066 **Tested** : 12 Jul 2023  
**Unique Number** : 5606112 **Diagnosed** : 12 Jul 2023 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**North America IML Container**  
 2625, Route 344  
 St. Placide, QC  
 CA J0V 2B0  
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 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.