

Machine Id  
**HP1 COMPRESSOR**

Component  
**Compressor**

Fluid  
**NOT GIVEN (--- LTR)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**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	<b>PC</b>	PC	PC
Sample Date	Client Info	<b>04 Jul 2023</b>	01 Jul 2023	14 Jul 2015
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

**WEAR METALS** method limit/base current history 1 history 2

PQ	ASTM D8184*	<b>0</b>	0	15
Iron	ppm ASTM D5185(m) >50	<b>&lt;1</b>	<1	<1
Chromium	ppm ASTM D5185(m) >5	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >15	<b>0</b>	0	<1
Lead	ppm ASTM D5185(m) >65	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >65	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	<1

**ADDITIVES** method limit/base current history 1 history 2

Boron	ppm ASTM D5185(m)	<b>0</b>	<1	0
Barium	ppm ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Calcium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Phosphorus	ppm ASTM D5185(m)	<b>100</b>	99	119
Zinc	ppm ASTM D5185(m)	<b>2</b>	2	1
Sulfur	ppm ASTM D5185(m)	<b>198</b>	195	45
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

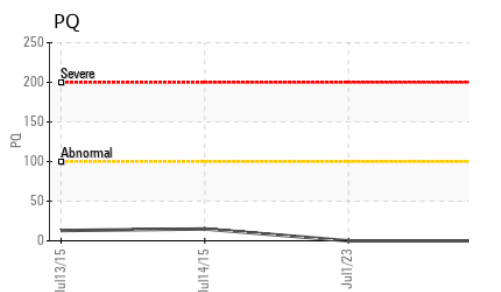
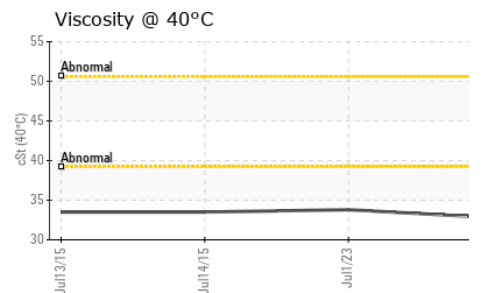
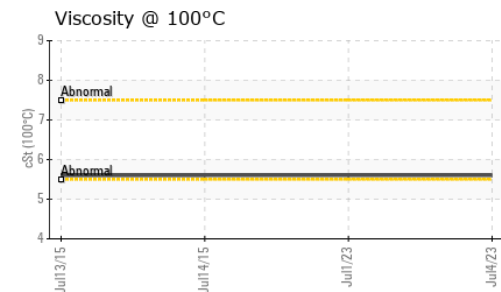
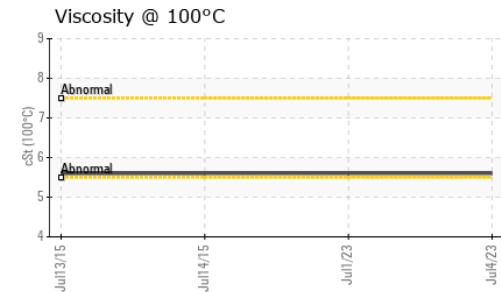
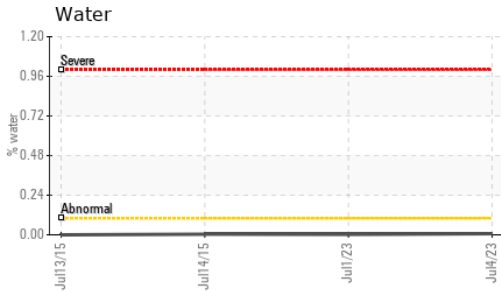
**CONTAMINANTS** method limit/base current history 1 history 2

Silicon	ppm ASTM D5185(m) >35	<b>1</b>	1	1
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Water	% ASTM D6304* >0.1	<b>0.007</b>	0.002	0.004
ppm Water	ppm ASTM D6304* >1000	<b>73.2</b>	17.4	49.8

**FLUID DEGRADATION** method limit/base current history 1 history 2

Acid Number (AN)	mg KOH/g ASTM D974*	<b>0.17</b>	0.18	0.042
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# OIL ANALYSIS REPORT

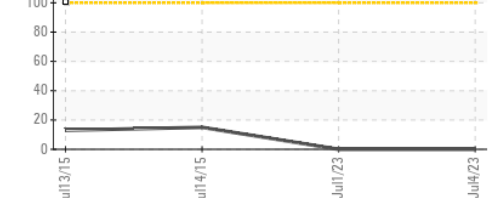
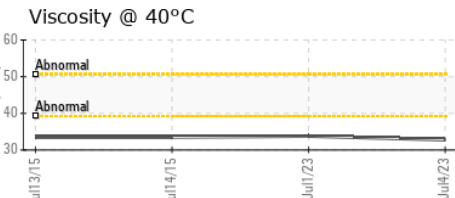
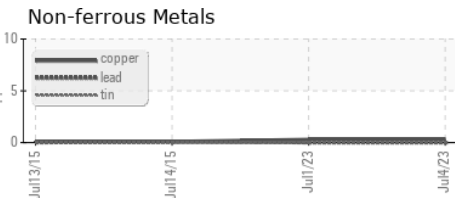
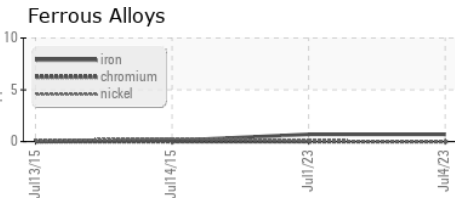


VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>.2%</b>	NEG	.2%
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)		<b>32.8</b>	33.8	33.5
Visc @ 100°C	cSt	ASTM D7279(m)		<b>5.6</b>	5.6	5.6
Viscosity Index (VI)	Scale	ASTM D2270*		<b>108</b>	102	104

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02567997  
**Unique Number** : 5605043  
**Test Package** : MAR 2 ( Additional Tests: KF, KV100, TAN Man, VI )

**Suncor - Terra Nova Projects**  
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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.*