

PROBLEM SUMMARY

Sample Rating Trend



ISO



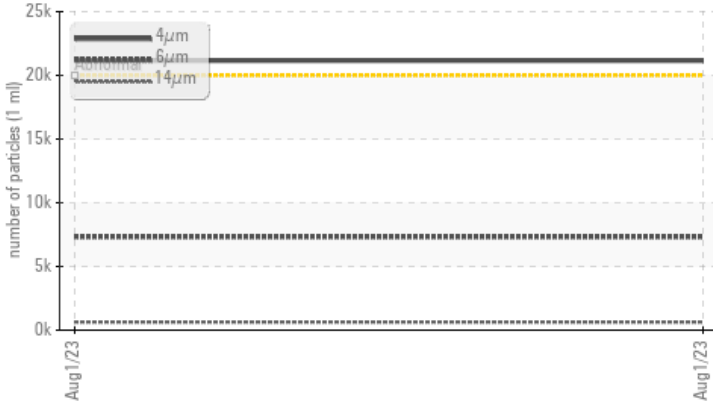
Machine Id
HANSEN 211A

Component
Reduction Gear

Fluid
PETRO CANADA ENDURATEX EP 220 (84 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	---	---
Particles >4µm	ASTM D7647	>20000	▲ 21149	---	---
Particles >6µm	ASTM D7647	>5000	▲ 7328	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 22/20/16	---	---

Customer Id: ARCWIN
Sample No.: PC0077142
Lab Number: 02582960
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS



Machine Id
HANSEN 211A

Component
Reduction Gear

Fluid
PETRO CANADA ENDURATEX EP 220 (84 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present 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	history1	history2
Sample Number	Client Info			PC0077142	---	---
Sample Date	Client Info			01 Aug 2023	---	---
Machine Age	yrs	Client Info		1	---	---
Oil Age	yrs	Client Info		0	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				ATTENTION	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	7	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)	>10	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	5	---	---
Lead	ppm	ASTM D5185(m)	>100	0	---	---
Copper	ppm	ASTM D5185(m)	>50	<1	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Antimony	ppm	ASTM D5185(m)	>5	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

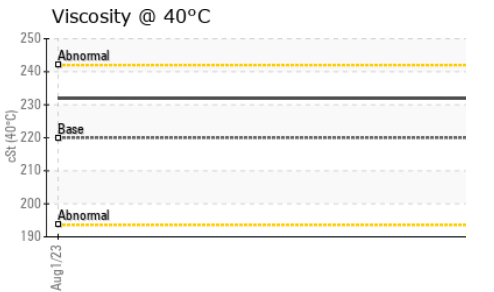
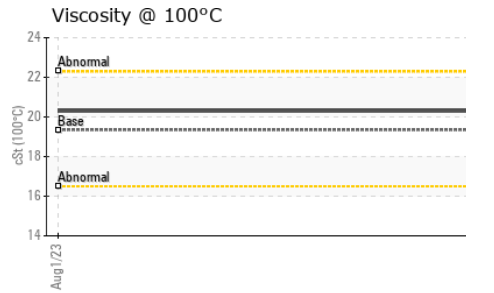
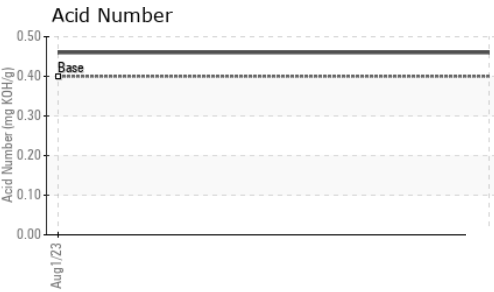
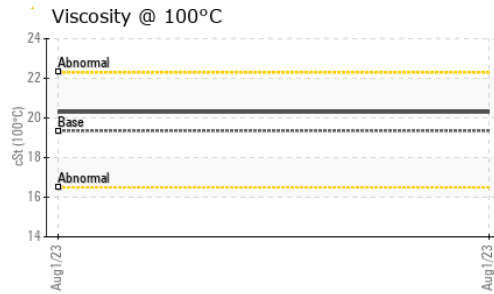
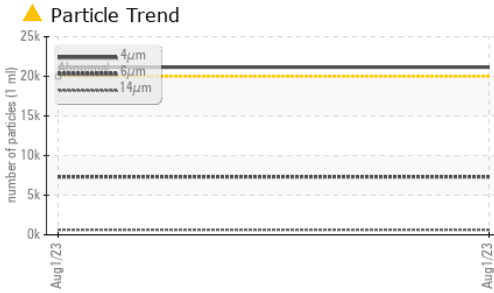
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	60	11	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	0	<1	---	---
Magnesium	ppm	ASTM D5185(m)	0	<1	---	---
Calcium	ppm	ASTM D5185(m)	0	17	---	---
Phosphorus	ppm	ASTM D5185(m)	270	263	---	---
Zinc	ppm	ASTM D5185(m)	0	3	---	---
Sulfur	ppm	ASTM D5185(m)	11200	7480	---	---
Lithium	ppm	ASTM D5185(m)		1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4	---	---
Sodium	ppm	ASTM D5185(m)		3	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 21149	---	---
Particles >6µm		ASTM D7647	>5000	▲ 7328	---	---
Particles >14µm		ASTM D7647	>640	630	---	---
Particles >21µm		ASTM D7647	>160	107	---	---
Particles >38µm		ASTM D7647	>40	4	---	---
Particles >71µm		ASTM D7647	>10	3	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/20/16	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	0.46	---	---

OIL ANALYSIS REPORT

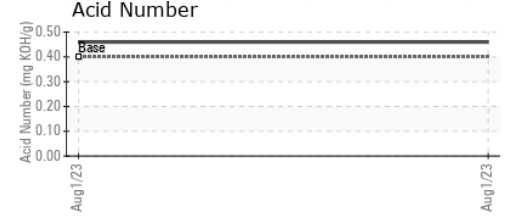
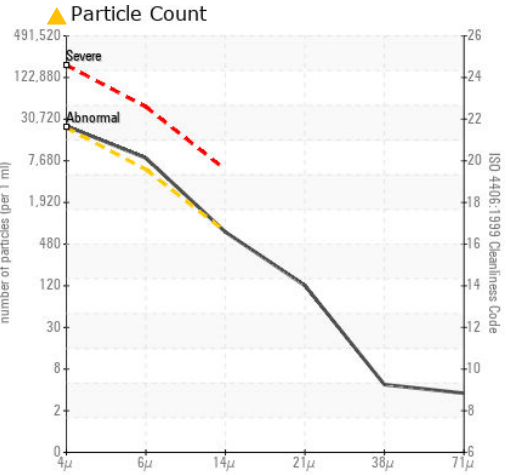
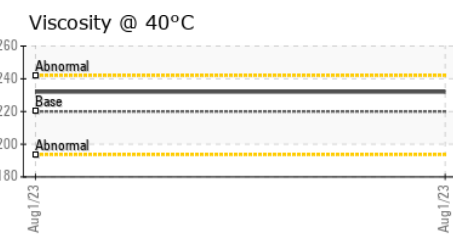
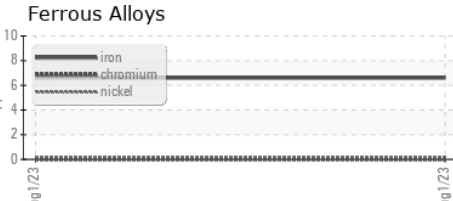


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	232	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	20.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	101	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARCHER DANIELS MIDLAND COMPANY (ADM)
Sample No. : PC0077142 **Received** : 15 Sep 2023 5550 MAPLEWOOD DRIVE
Lab Number : 02582960 **Diagnosed** : 18 Sep 2023 WINDSOR, ON
Unique Number : 5644025 **Diagnostician** : Wes Davis CA N9C 0B9
Test Package : IND 2 (Additional Tests: KV100, VI)
 Contact: Terry Summerfield
 terry.summerfield@adm.com
 T: (519)972-2324
 F:

*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.*