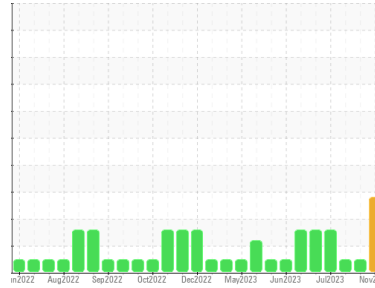


Machine Id
JENBACHER X237 (S/N 1351125)

Component
Circulating Natural Gas Engine

Fluid
PETRO CANADA SENTRON CG 40 (600 LTR)



DIAGNOSIS

Recommendation

We advise that you check the efficiency of the lube oil purifier. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The i-pH level is abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0077250	PC0070714	PC0070716
Sample Date	Client Info	09 Nov 2023	03 Oct 2023	22 Sep 2023
Machine Age	hrs	35004	34266	34003
Oil Age	hrs	1284	546	283
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	3	2	2
Chromium	ppm ASTM D5185(m) >5	<1	0	0
Nickel	ppm ASTM D5185(m) >2	<1	0	0
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m) >3	<1	<1	<1
Aluminum	ppm ASTM D5185(m) >15	4	2	1
Lead	ppm ASTM D5185(m) >20	<1	<1	<1
Copper	ppm ASTM D5185(m) >15	<1	<1	<1
Tin	ppm ASTM D5185(m) >5	2	<1	<1
Antimony	ppm ASTM D5185(m)	<1	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	4	5	5
Barium	ppm ASTM D5185(m) 1	<1	<1	<1
Molybdenum	ppm ASTM D5185(m) 2	1	1	1
Manganese	ppm ASTM D5185(m) 1	0	0	0
Magnesium	ppm ASTM D5185(m) 9	20	20	19
Calcium	ppm ASTM D5185(m) 2712	2956	2851	2721
Phosphorus	ppm ASTM D5185(m) 292	286	281	275
Zinc	ppm ASTM D5185(m) 342	343	334	322
Sulfur	ppm ASTM D5185(m) 2575	3048	2606	2548
Lithium	ppm ASTM D5185(m)	<1	<1	<1

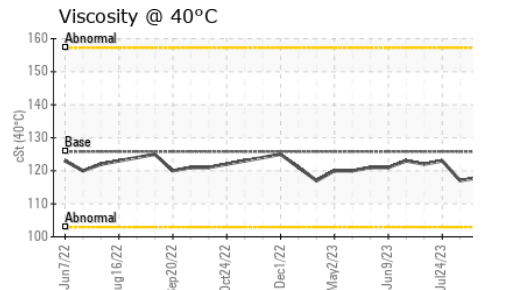
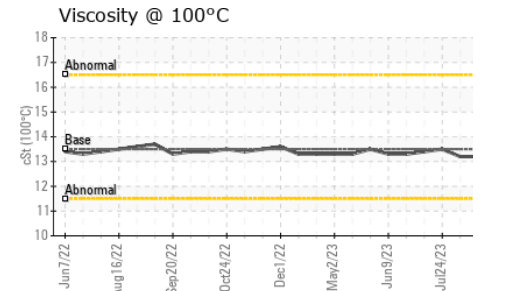
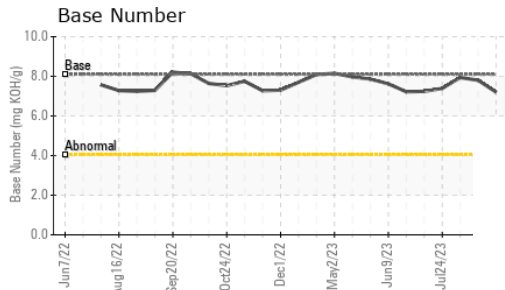
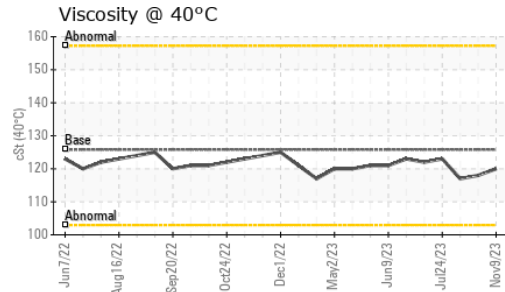
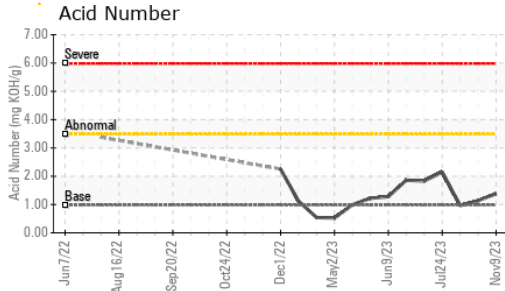
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >100	▲ 111	62	35
Sodium	ppm ASTM D5185(m) >20	<1	<1	<1
Potassium	ppm ASTM D5185(m) >20	0	0	<1

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >2	0	---	0
Nitration	Abs/cm ASTM D7624* >20	5.2	---	4.3
Sulfation	Abs./1mm ASTM D7415* >20	17.3	---	14.8

OIL ANALYSIS REPORT

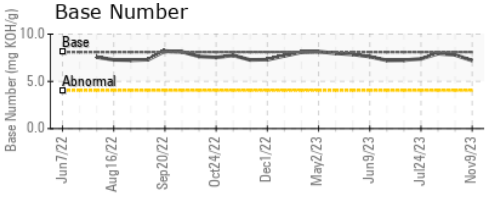
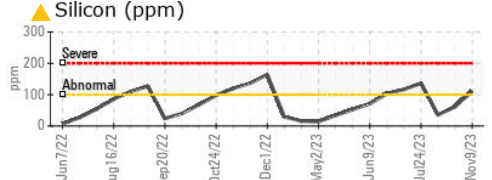
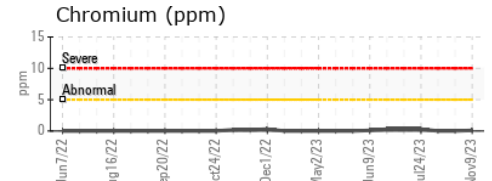
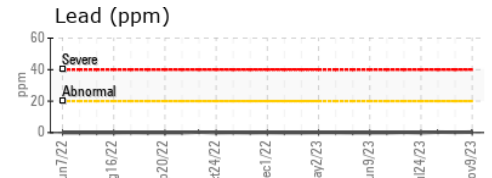
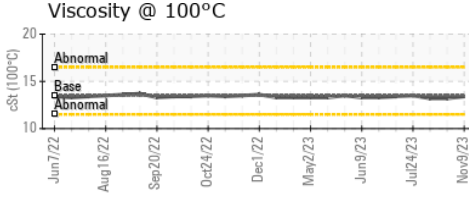
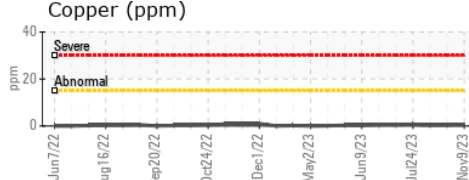
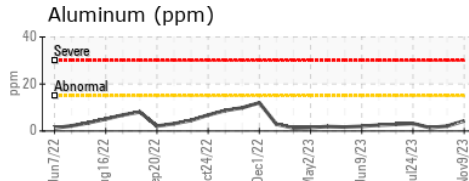
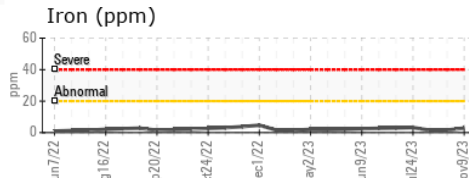


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>20	9.1	---	7.7
Acid Number (AN)	mg KOH/g	ASTM D974*	0.98	1.38	1.14	0.96
Base Number (BN)	mg KOH/g	ASTM D2896*	8.1	7.20	7.80	7.94
i-pH	Scale 0-14	ASTM D7946*	<4.5	▲ 4.10	5.51	5.95

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	125.8	120	118	117
Visc @ 100°C	cSt	ASTM D7279(m)	13.5	13.4	13.2	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	105	107	106	107

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CHALEUR REGIONAL SERVICE COMMISSION
Sample No. : PC0077250 **Received** : 20 Nov 2023 1300 RTE 360
Lab Number : 02597654 **Diagnosed** : 23 Nov 2023 ALLARDVILLE, NB
Unique Number : 5682734 **Diagnostician** : Kevin Marson CA E8L 1H5
Test Package : MOB 2 (Additional Tests: i-pH, KV40, TAN Auto, TAN Man, VI, Visual) Contact: Yvon Richard yvon.richard@csrchalearsc.ca
 To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (506)725-2402
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F:
 Validity of results and interpretation are based on the sample and information as supplied.