



Machine Id
WEICHAI J-BEND WEICHAI

Component
Propane Engine

Fluid
PETRO-CANADA SENTRON VTP 10W40 (--- GAL)



DIAGNOSIS

Recommendation
Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
Copper ppm levels are abnormal. Bearing wear is indicated.

Contamination
Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

Fluid Condition
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 as a result of the abnormal and/or severe wear. The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0073831	---	---
Sample Date	Client Info	28 Aug 2023	---	---
Machine Age	hrs Client Info	10910	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	---	---
Iron	ppm ASTM D5185(m) >100	4	---	---
Chromium	ppm ASTM D5185(m) >25	0	---	---
Nickel	ppm ASTM D5185(m) >5	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >5	0	---	---
Aluminum	ppm ASTM D5185(m) >20	2	---	---
Lead	ppm ASTM D5185(m) >25	2	---	---
Copper	ppm ASTM D5185(m) >35	▲ 46	---	---
Tin	ppm ASTM D5185(m) >8	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	history1	history2
Boron	ppm ASTM D5185(m) 0	17	---	---
Barium	ppm ASTM D5185(m) 0	0	---	---
Molybdenum	ppm ASTM D5185(m) 0	<1	---	---
Manganese	ppm ASTM D5185(m) 0	<1	---	---
Magnesium	ppm ASTM D5185(m) 5	7	---	---
Calcium	ppm ASTM D5185(m) 1239	1080	---	---
Phosphorus	ppm ASTM D5185(m) 677	638	---	---
Zinc	ppm ASTM D5185(m) 797	791	---	---
Sulfur	ppm ASTM D5185(m) 2660	2372	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	8	---	---
Sodium	ppm ASTM D5185(m)	▲ 222	---	---
Potassium	ppm ASTM D5185(m) >20	0	---	---

INFRA-RED

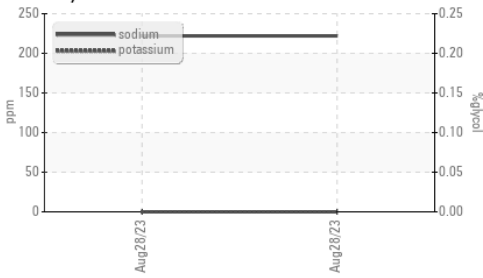
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	---	---
Nitration	Abs/cm ASTM D7624*	>20	---	---
Sulfation	Abs/.1mm ASTM D7415*	>30	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	>25	---	---
Acid Number (AN)	mg KOH/g ASTM D974*	1.59	---	---
Base Number (BN)	mg KOH/g ASTM D2896*	4.8	---	---

OIL ANALYSIS REPORT

▲ Glycol Contamination

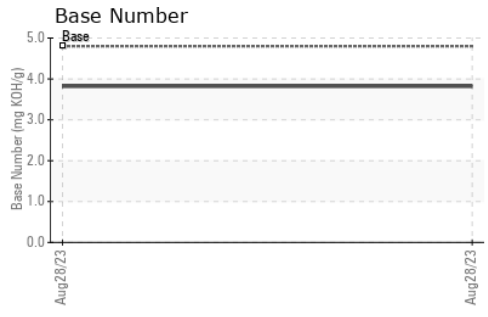
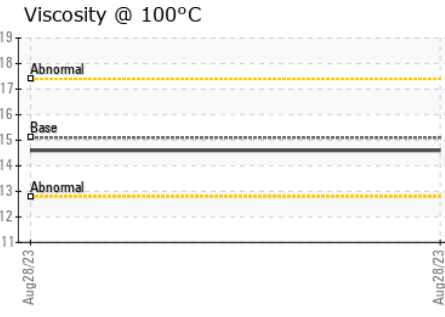
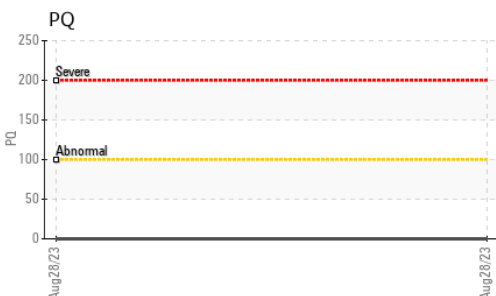
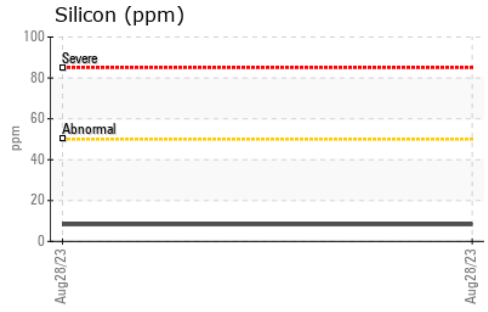
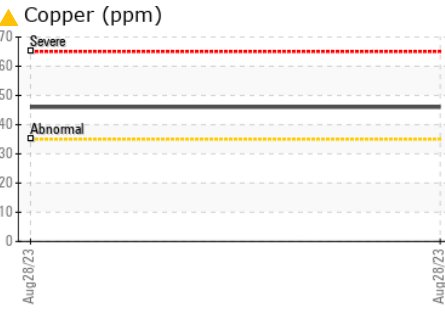
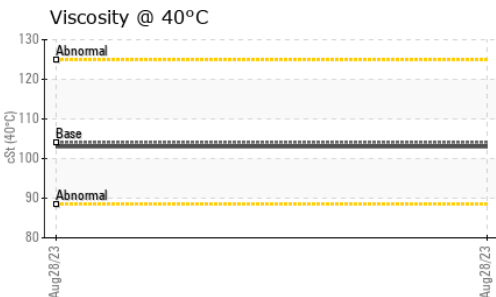
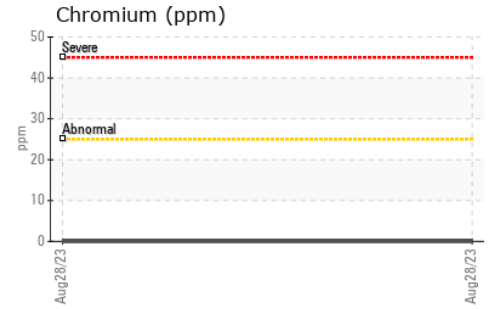
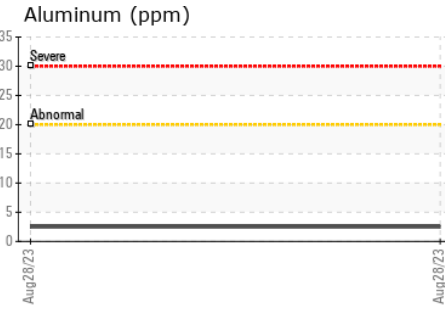
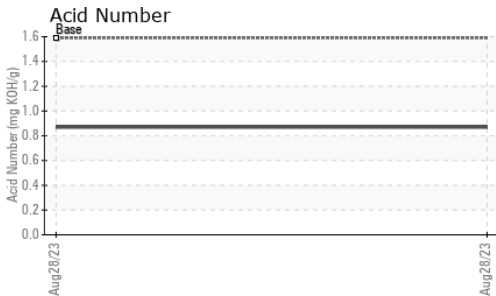
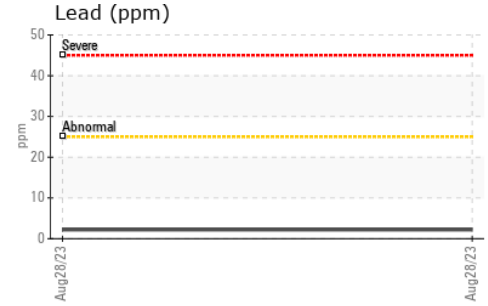
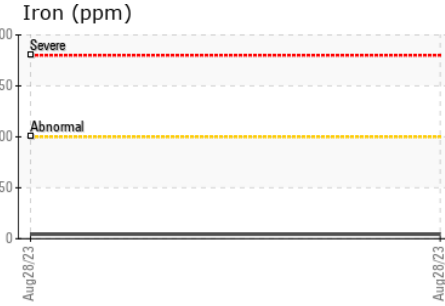
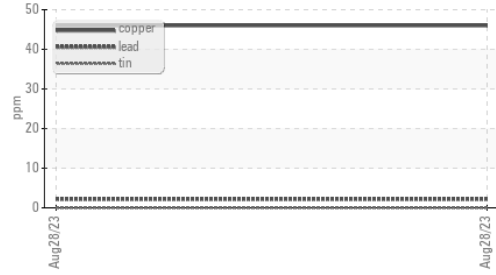


VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	104.1	103	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	151	146	---

GRAPHS

▲ Non-ferrous Metals



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073831 **Received** : 22 Sep 2023
Lab Number : 02584664 **Diagnosed** : 26 Sep 2023
Unique Number : 5645729 **Diagnostician** : Bill Quesnel
Test Package : MOB 2 (Additional Tests: KV40, PQ, TAN Man, VI)

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 Linwood, ON
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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.

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