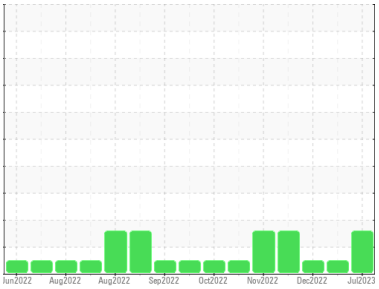
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
JENBACHER 1351185
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON CG 40 (--- GAL)

DIAGNOSIS

Recommendation

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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All other component wear rates are normal.

Contamination

There is a moderate concentration of dirt present 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 due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**PC0070717**	PC0070715	PC0070721
Sample Date		Client Info		**04 Jul 2023**	02 May 2023	16 Dec 2022
Machine Age	hrs	Client Info		**33072**	31752	31493
Oil Age	hrs	Client Info		**1406**	92	217
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
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	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>15	**2**	2	3
Lead	ppm	ASTM D5185(m)	>20	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>15	**<1**	0	0
Tin	ppm	ASTM D5185(m)	>5	**2**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	<1
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	history 1	history 2
Boron	ppm	ASTM D5185(m)	0	**2**	2	1
Barium	ppm	ASTM D5185(m)	1	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	2	**2**	1	1
Manganese	ppm	ASTM D5185(m)	1	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	9	**23**	20	20
Calcium	ppm	ASTM D5185(m)	2712	**2929**	2873	2850
Phosphorus	ppm	ASTM D5185(m)	292	**295**	288	286
Zinc	ppm	ASTM D5185(m)	342	**341**	306	312
Sulfur	ppm	ASTM D5185(m)	2575	**2623**	2649	2637
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>100	▲ **103**	14	29
Sodium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844*	>2	**0**	---	0
Nitration	Abs/cm	ASTM D7624*	>20	**5.2**	---	3.7
Sulfation	Abs/.1mm	ASTM D7415*	>20	**17.2**	---	14.4

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	ASTM D7414*	>20	**9.2**	---	6.3
Acid Number (AN)	mg KOH/g	ASTM D974*	0.98	**1.86**	0.52	1.12
Base Number (BN)	mg KOH/g	ASTM D2896*	8.1	**7.22**	8.15	7.70
i-pH	Scale 0-14	ASTM D7946*	<4.5	**5.00**	5.85	6184

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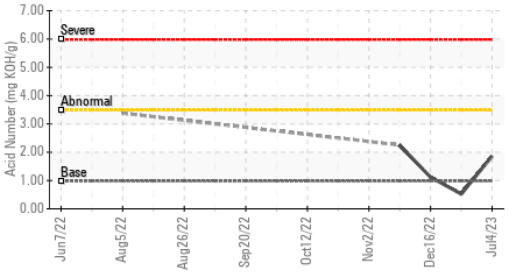
VISUAL		method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

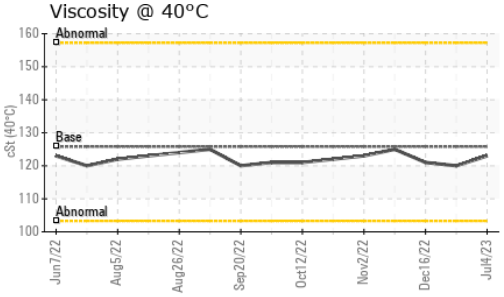
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	125.8	**123**	120	121
Visc @ 100°C	cSt	ASTM D7279(m)	13.5	**13.3**	13.3	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	105	**102**	105	104

GRAPHS

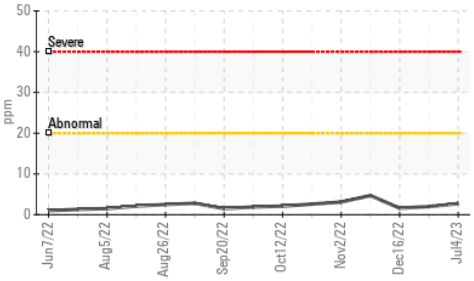
Acid Number



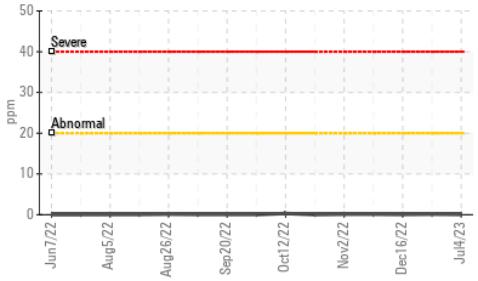
Viscosity @ 40°C



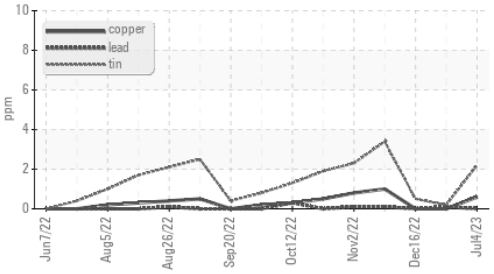
Iron (ppm)



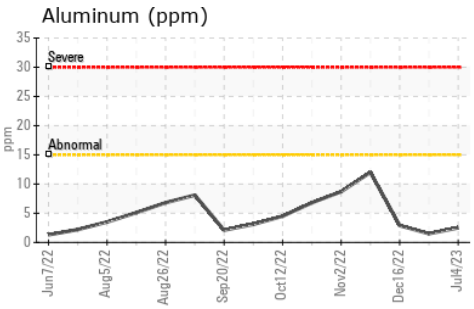
Lead (ppm)



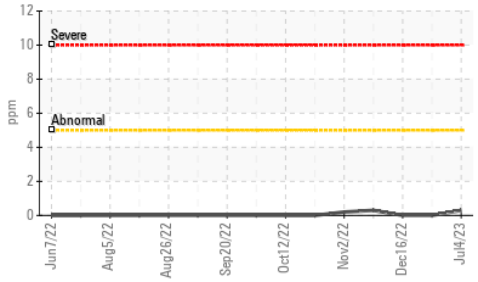
Non-ferrous Metals



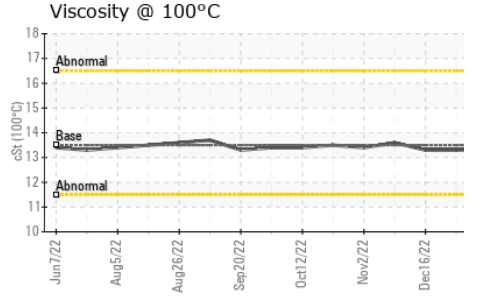
Aluminum (ppm)



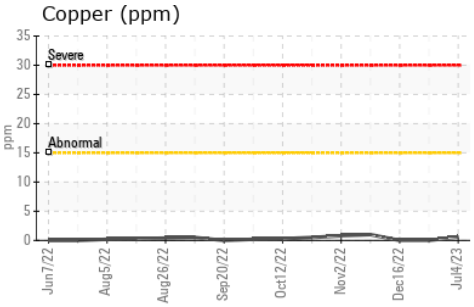
Chromium (ppm)



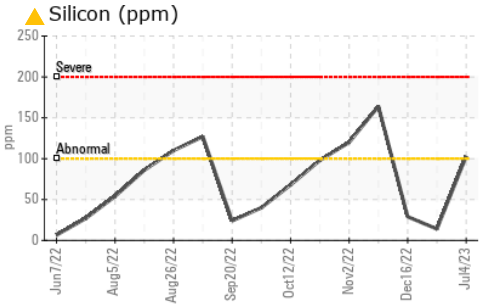
Viscosity @ 100°C



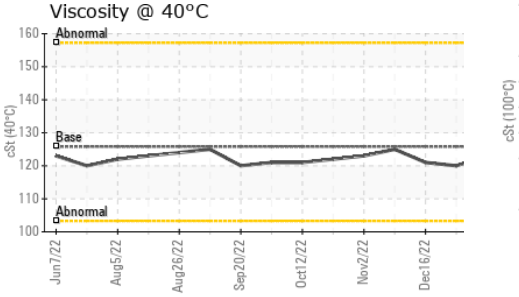
Copper (ppm)



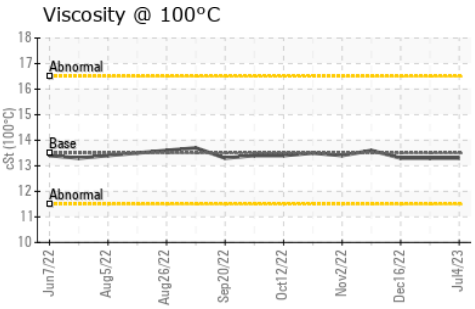
Silicon (ppm)



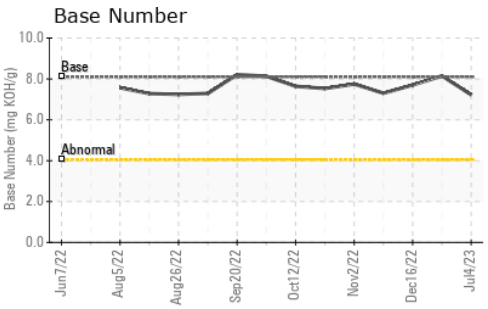
Viscosity @ 40°C



Viscosity @ 100°C



Base Number



CALA Testing Accreditation No. 1005078
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CHALEUR REGIONAL SERVICE COMMISSION**
Sample No. : PC0070717 **Received** : 05 Jul 2023 1300 RTE 360
Lab Number : 02567962 **Diagnosed** : 06 Jul 2023 ALLARDVILLE, NB
Unique Number : 5605008 **Diagnostician** : Kevin Marson CA E8L 1H5
Test Package : MOB 2 (Additional Tests: i-pH, KV40, TAN Auto, TAN Man, VI) Contact: Yvon Richard

To discuss this sample report, contact Customer Service at 1-800-268-2131. yvon.richard@csrchaleurrsc.ca
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (506)725-2402
Validity of results and interpretation are based on the sample and information as supplied. F: