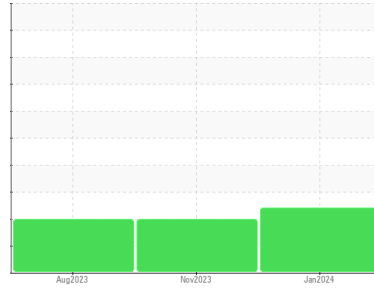




Machine Id
WEICHAI J-BEND WEICHAI

Component
Propane Engine

Fluid
PETRO CANADA SENTRON LD 5000 (--- 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
All component wear rates are normal.

Contamination
Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

Fluid Condition
The AN level is acceptable for this fluid. 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			PC0078883	PC0078878	PC0073831
Sample Date	Client Info			31 Jan 2024	01 Nov 2023	28 Aug 2023
Machine Age	hrs	Client Info		11972	11457	10910
Oil Age	hrs	Client Info		515	546	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	7	5	4
Chromium	ppm	ASTM D5185(m)	>25	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	3	2
Lead	ppm	ASTM D5185(m)	>25	2	3	2
Copper	ppm	ASTM D5185(m)	>35	24	▲ 59	▲ 46
Tin	ppm	ASTM D5185(m)	>8	0	0	0
Antimony	ppm	ASTM D5185(m)		0	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

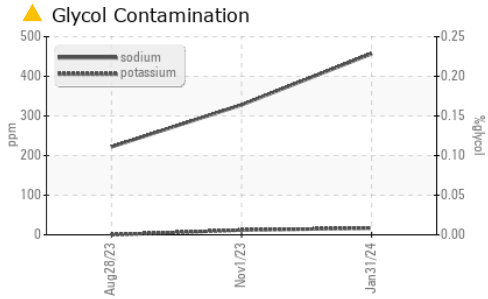
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	22	14	17
Barium	ppm	ASTM D5185(m)	3	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<1	0	<1
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	4	10	7	7
Calcium	ppm	ASTM D5185(m)	1727	1502	1098	1080
Phosphorus	ppm	ASTM D5185(m)	272	346	620	638
Zinc	ppm	ASTM D5185(m)	333	422	816	791
Sulfur	ppm	ASTM D5185(m)	3415	2789	2373	2372
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	11	11	8
Sodium	ppm	ASTM D5185(m)		▲ 457	▲ 328	▲ 222
Potassium	ppm	ASTM D5185(m)	>20	▲ 17	12	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.7	5.1
Sulfation	Abs.1mm	ASTM D7415*	>30	17.2	18.4	16.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs.1mm	ASTM D7414*	>25	10.1	11.1	8.5
Acid Number (AN)	mg KOH/g	ASTM D974*	1.1	0.83	0.77	0.87

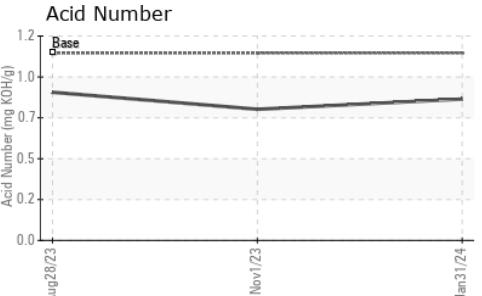
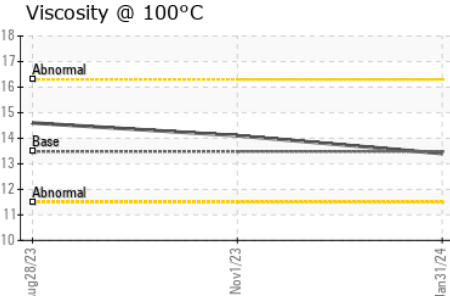
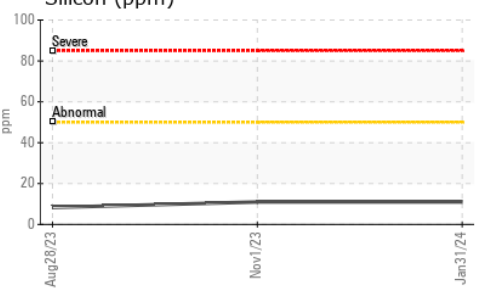
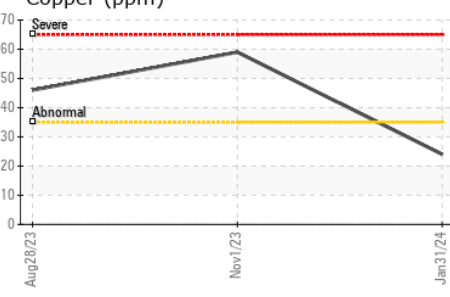
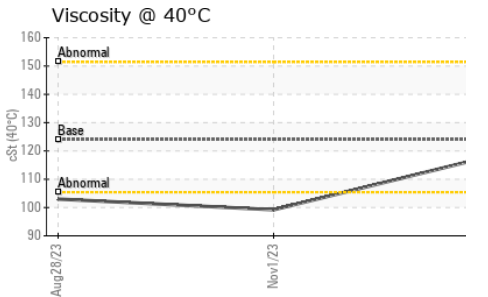
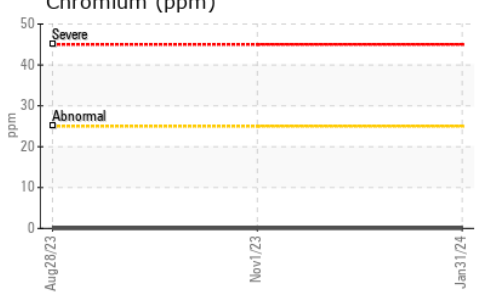
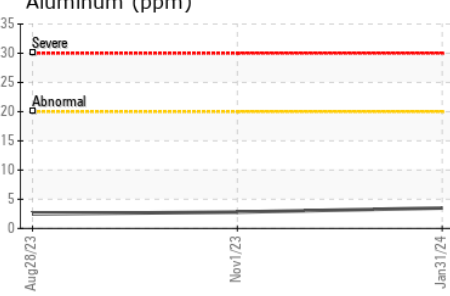
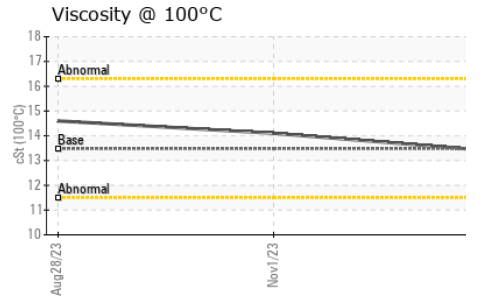
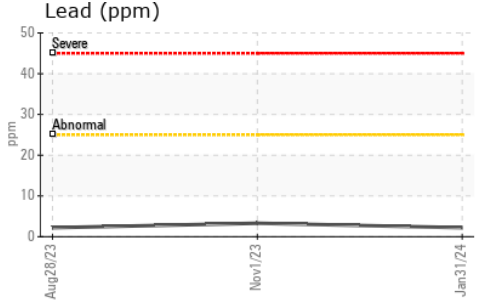
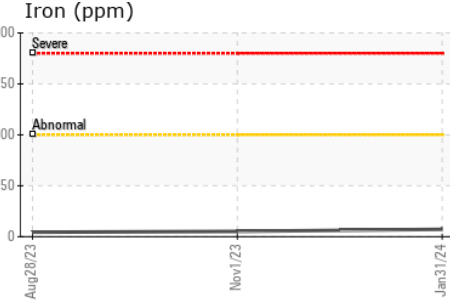
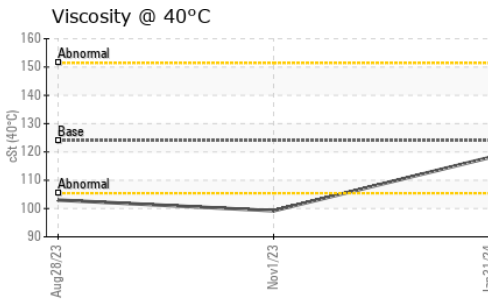
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	124	118	99.2
Visc @ 100°C	cSt	ASTM D7279(m)	13.48	13.4	14.1
Viscosity Index (VI)	Scale	ASTM D2270*	104	109	145

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078883 **Received** : 05 Feb 2024
Lab Number : 02613342 **Diagnosed** : 05 Feb 2024
Unique Number : 5722437 **Diagnostician** : Bill Quesnel
Test Package : MOB 2 (Additional Tests: KV40, TAN Man, VI)

Martin Energy Group Canada
 1050 Boyde Lane RR#1
 Linwood, ON
 CA N0B 2A0
 Contact: J Wagler
 jwagler@martinenergygroup.com

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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F: