MOBIL LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
Z966
Component
Biogas Engine
Fluid
PETRO CANADA SENTRON LD 5000 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

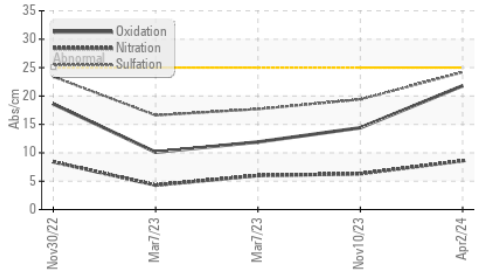
There is no indication of any contamination in the oil.

FLUID CONDITION

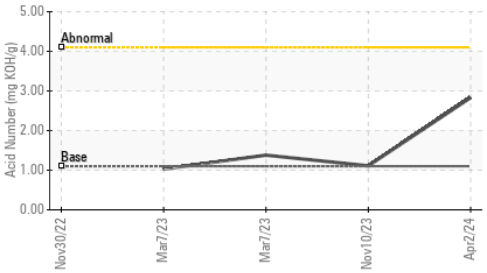
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0069073	PCA0069077	PCA0069104
Sample Date		Client Info		02 Apr 2024	10 Nov 2023	07 Mar 2023
Machine Age	hrs	Client Info		13181	11119	7043
Oil Age	hrs	Client Info		0	977	3043
Filter Age	hrs	Client Info		0	977	3043
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>45	28	29	4
Chromium	ppm	ASTM D5185m	>2	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	1	2
Lead	ppm	ASTM D5185m	>5	4	0	1
Copper	ppm	ASTM D5185m	>14	1	0	0
Tin	ppm	ASTM D5185m	>13	1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>200	3	2	8
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	6.3	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	19.4	17.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		6	4	2
Boron	ppm	ASTM D5185m	2	<1	<1	2
Barium	ppm	ASTM D5185m	3	0	0	0
Molybdenum	ppm	ASTM D5185m	0	3	<1	2
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	4	23	22	14
Calcium	ppm	ASTM D5185m	1727	2229	2000	1957
Phosphorus	ppm	ASTM D5185m	272	372	325	334
Zinc	ppm	ASTM D5185m	333	475	400	371
Sulfur	ppm	ASTM D5185m	3415	3779	3279	3631
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	14.4	11.9
Acid Number (AN)	mg KOH/g	ASTM D8045	1.1	2.83	1.11	1.38
Base Number (BN)	mg KOH/g	ASTM D2896	4.9	3.47	3.77	4.53
Visc @ 100°C	cSt	ASTM D445	13.4	14.7	14.0	13.5

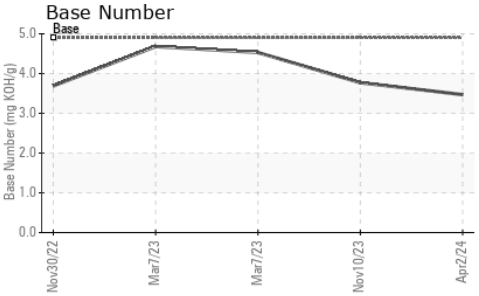
FT-IR (Direct Trend)



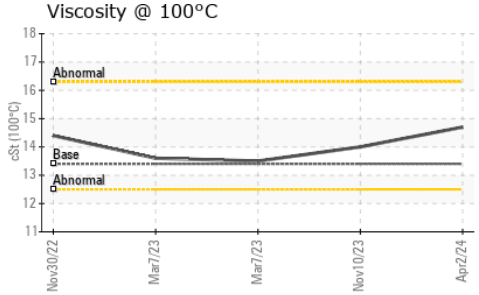
Acid Number



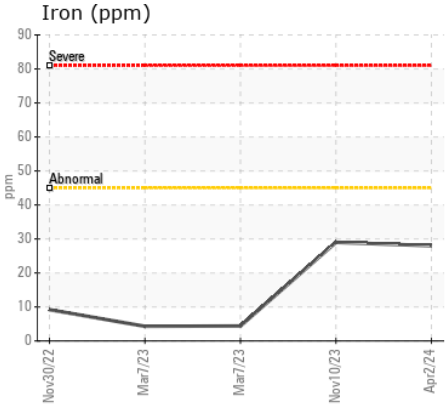
Base Number



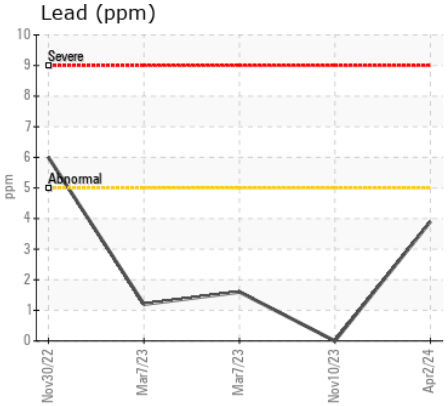
Viscosity @ 100°C



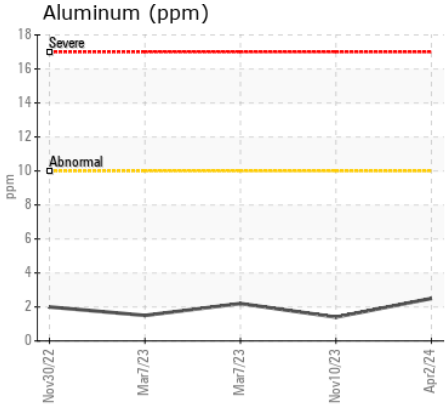
Iron (ppm)



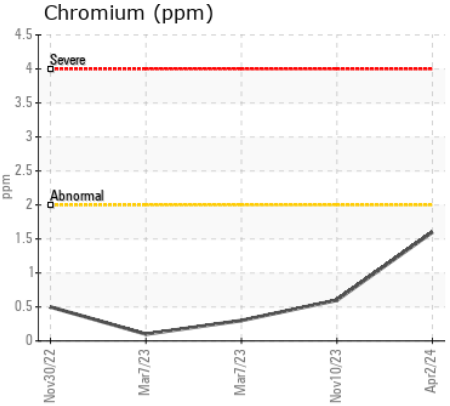
Lead (ppm)



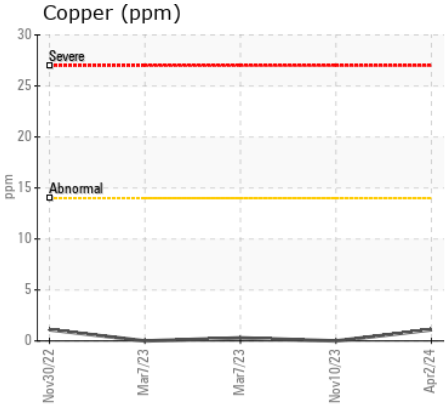
Aluminum (ppm)



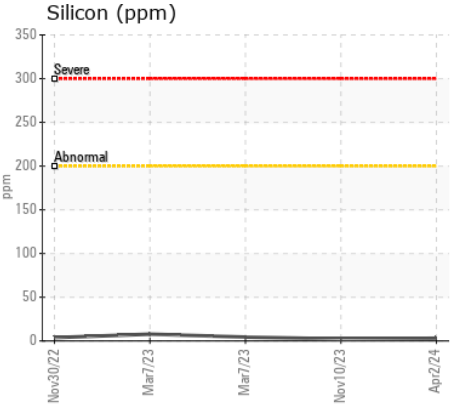
Chromium (ppm)



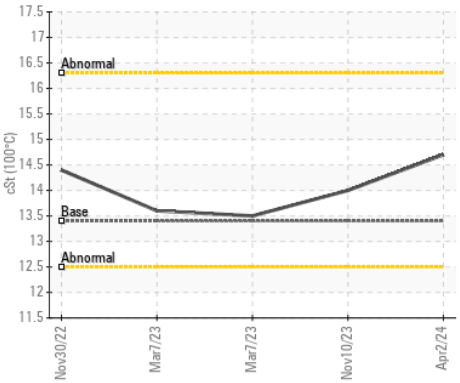
Copper (ppm)



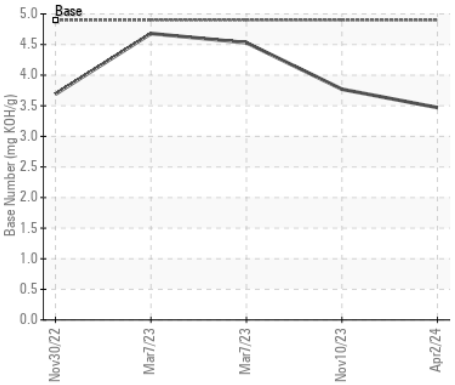
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0069073
Lab Number : 06159304
Unique Number : 10994727
Test Package : MOB 2

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 26 Apr 2024 - Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

YAAMAVA RESORT AND CASINO
777 SAN MANUEL BLVD
HIGHLAND, CA
US 92346
Contact: JOSHUA AVILA
joshua.avila@yaamava.com
T:
F: