TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PONTIAC 290CTC
Component
Front Gasoline Engine
Fluid
TRC PRO-SPEC MULTI VISC 5W30 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

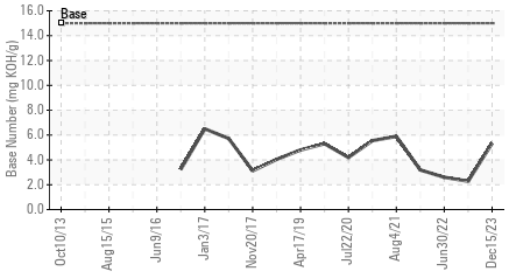
There is no indication of any contamination in the oil.

FLUID CONDITION

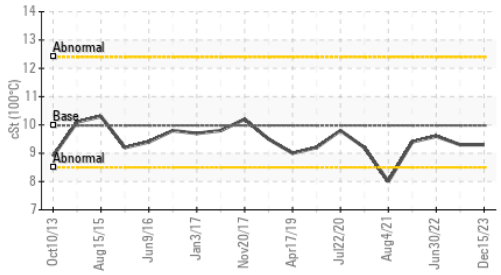
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02606537	TR02568224	TR02500801
Sample Date		Client Info		15 Dec 2023	26 Jun 2023	30 Jun 2022
Machine Age	kms	Client Info		340748	333852	298277
Oil Age	kms	Client Info		6431	9956	20577
Filter Age	kms	Client Info		6431	9956	20577
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>150	10	24	20
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	3	4	4
Lead	ppm	ASTM D5185(m)	>50	0	0	0
Copper	ppm	ASTM D5185(m)	>155	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Silicon	ppm	ASTM D5185(m)	>30	20	▲ 34	▲ 37
Potassium	ppm	ASTM D5185(m)	>20	0	2	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.2	13.3	15.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	29.5	31.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>400	4	6	5
Boron	ppm	ASTM D5185(m)		67	31	32
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		91	208	74
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		487	506	470
Calcium	ppm	ASTM D5185(m)	4200	1195	1231	1357
Phosphorus	ppm	ASTM D5185(m)	800	680	720	639
Zinc	ppm	ASTM D5185(m)	800	701	750	736
Sulfur	ppm	ASTM D5185(m)		2614	2716	2344
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	23.0	27.4
Base Number (BN)	mg KOH/g	ASTM D2896*	15	5.33	2.28	2.60
Visc @ 100°C	cSt	ASTM D7279(m)	9.98	9.3	9.3	9.6

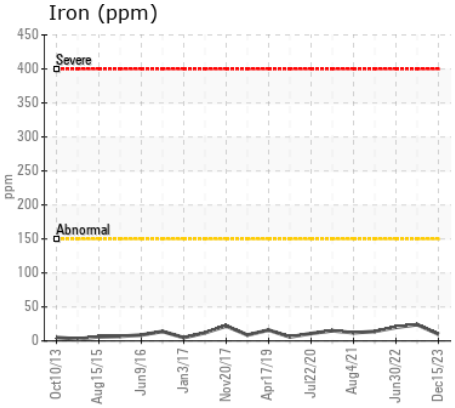
Base Number



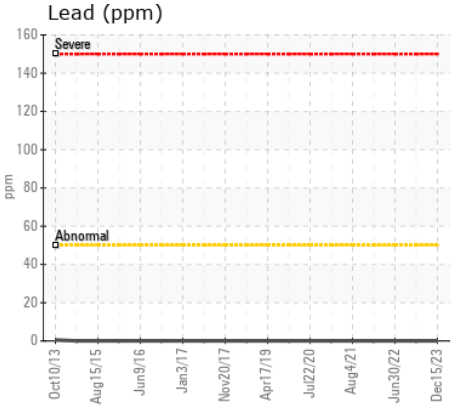
Viscosity @ 100°C



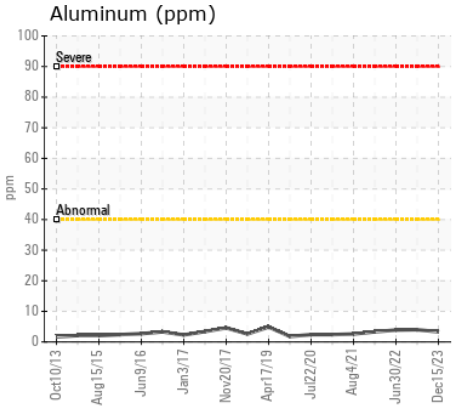
Iron (ppm)



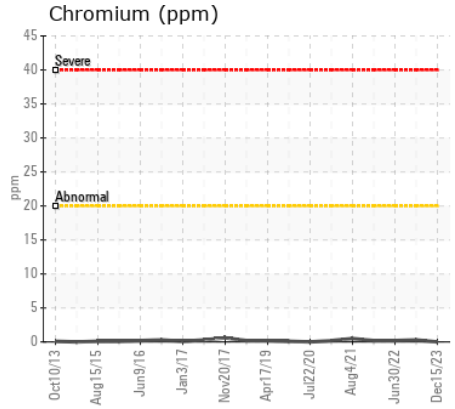
Lead (ppm)



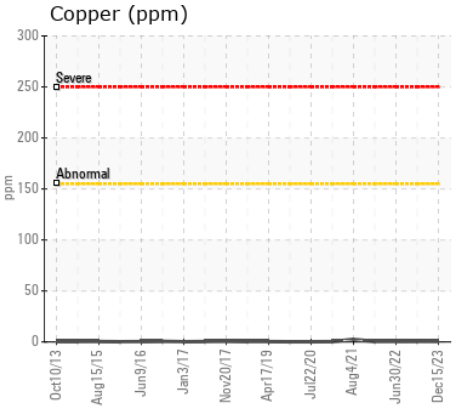
Aluminum (ppm)



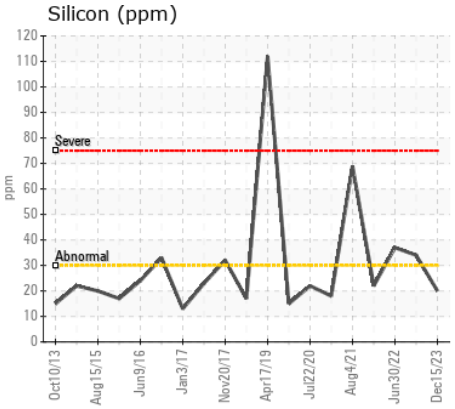
Chromium (ppm)



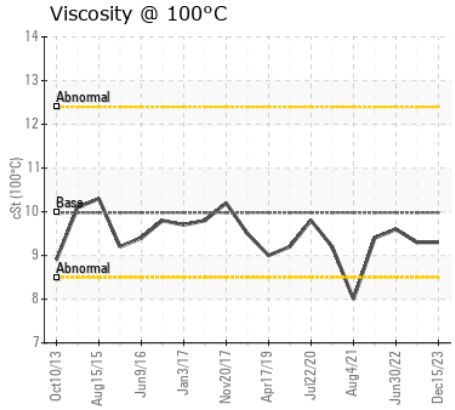
Copper (ppm)



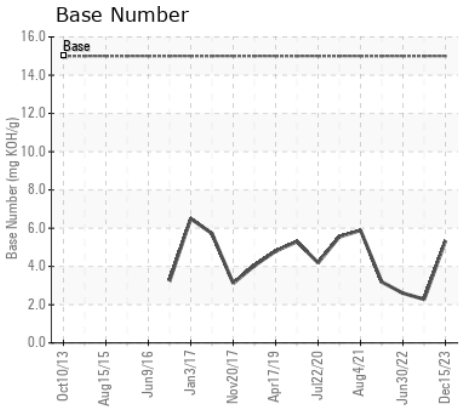
Silicon (ppm)



Viscosity @ 100°C



Base Number



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: TR02606537	**Recieved**	: 04 Jan 2024
Lab Number	: 02606537	**Diagnosed**	: 05 Jan 2024
Unique Number	: 5707623	**Diagnostician**	: Wes Davis
Test Package	: MOB 2		

To discuss this sample report, contact Customer Service at 1-800-827-0711.
** - 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)

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