TRC TRAAP
Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GMC 146118
Component
Front Gasoline Engine
Fluid
TRC PRO-SPEC SYNTHETIC 0W20 (7 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

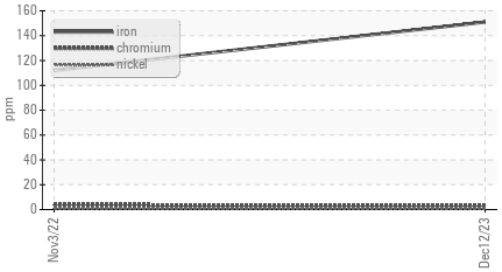
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02607004	TR02524608	---
Sample Date		Client Info		12 Dec 2023	03 Nov 2022	---
Machine Age	kms	Client Info		77745	51924	---
Oil Age	kms	Client Info		25821	28592	---
Filter Age	kms	Client Info		25821	28592	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>150	▲ 151	112	---
Chromium	ppm	ASTM D5185(m)	>20	3	4	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	4	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>40	9	11	---
Lead	ppm	ASTM D5185(m)	>50	<1	2	---
Copper	ppm	ASTM D5185(m)	>155	34	60	---
Tin	ppm	ASTM D5185(m)	>10	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
Silicon	ppm	ASTM D5185(m)	>30	42	41	---
Potassium	ppm	ASTM D5185(m)	>20	5	4	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	15.9	16.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	32.2	29.0	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>400	17	3	---
Boron	ppm	ASTM D5185(m)		31	18	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		79	126	---
Manganese	ppm	ASTM D5185(m)		10	18	---
Magnesium	ppm	ASTM D5185(m)		469	498	---
Calcium	ppm	ASTM D5185(m)	2100	1217	1435	---
Phosphorus	ppm	ASTM D5185(m)		634	737	---
Zinc	ppm	ASTM D5185(m)	870	796	847	---
Sulfur	ppm	ASTM D5185(m)		2265	1765	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	32.6	31.7	---
Base Number (BN)	mg KOH/g	ASTM D2896*		2.94	4.06	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.3	8.1	9.1	---

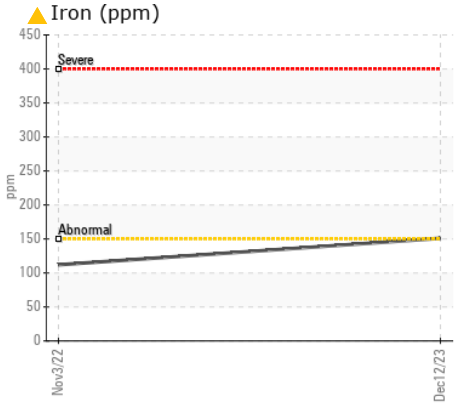
Report Id: WILROS [WCAMIS] 02607004 (Generated: 01/09/2024 11:17:10) Rev: 2

Contact/Location: David Cramer - WILROS

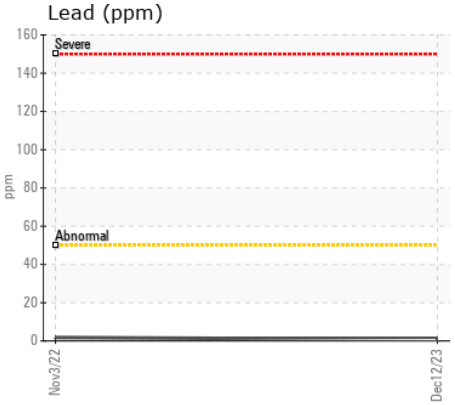
Ferrous Alloys



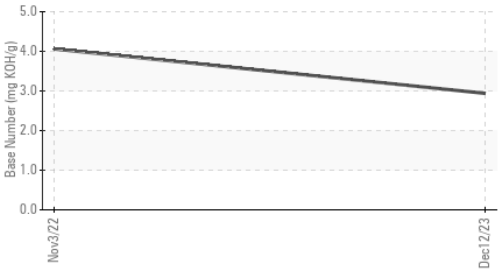
Iron (ppm)



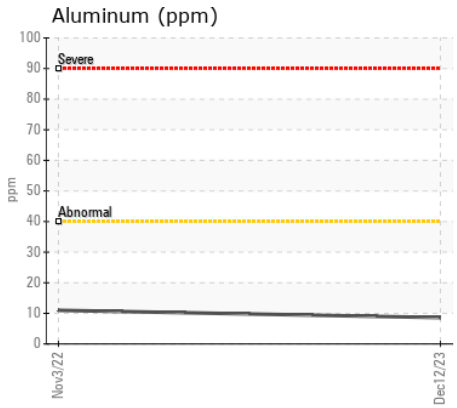
Lead (ppm)



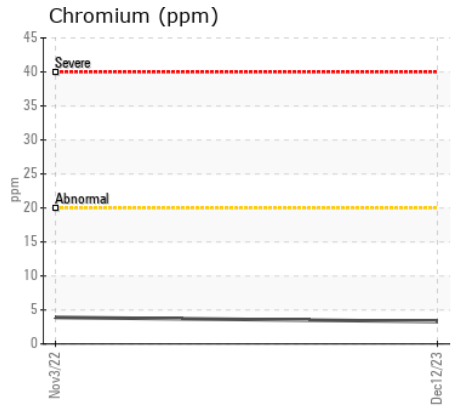
Base Number



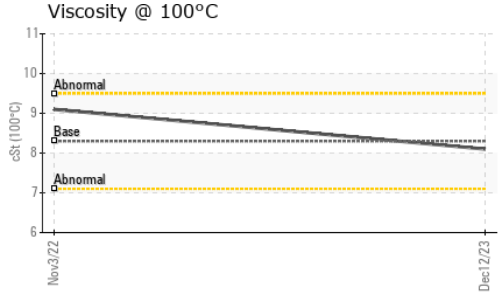
Aluminum (ppm)



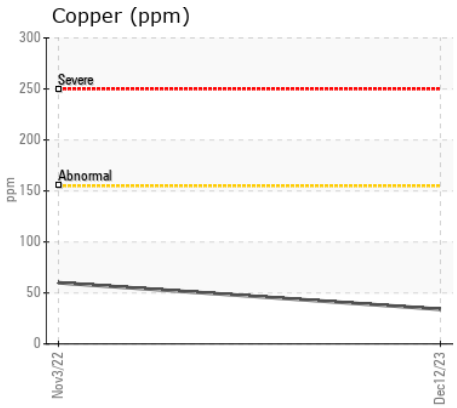
Chromium (ppm)



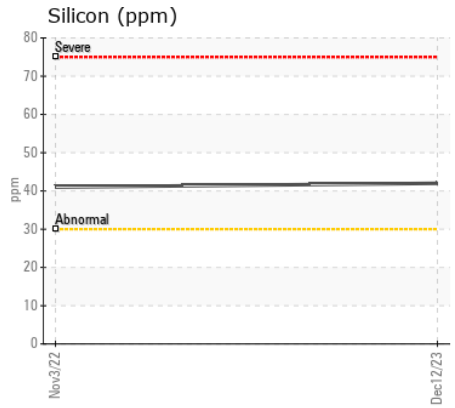
Viscosity @ 100°C



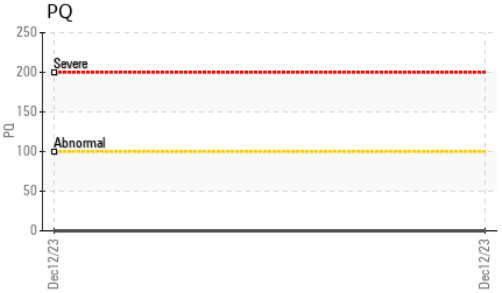
Copper (ppm)



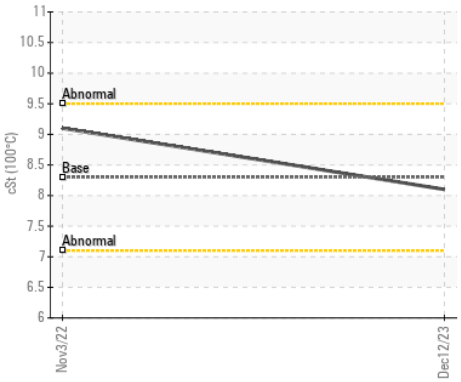
Silicon (ppm)



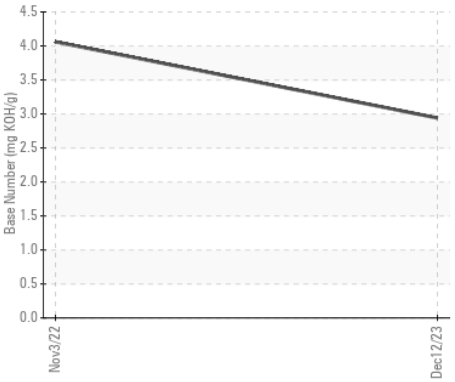
PQ



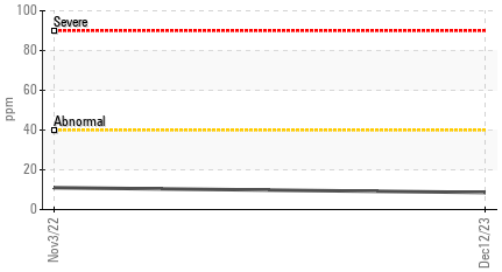
Viscosity @ 100°C



Base Number



Aluminum (ppm)



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: TR02607004	**Recieved**	: 08 Jan 2024
Lab Number	: 02607004	**Diagnosed**	: 09 Jan 2024
Unique Number	: 5708090	**Diagnostician**	: Kevin Marson
Test Package	: MOB 2 (Additional Tests: PQ)		

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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