LEAHY·WOLF
Lubricating specialists since 1946

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CCC 291
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

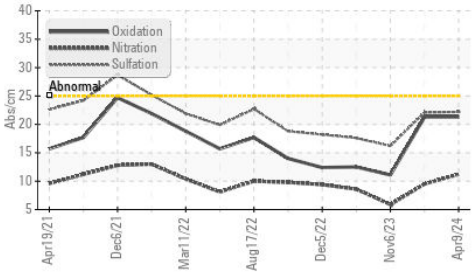
There is no indication of any contamination in the oil.

FLUID CONDITION

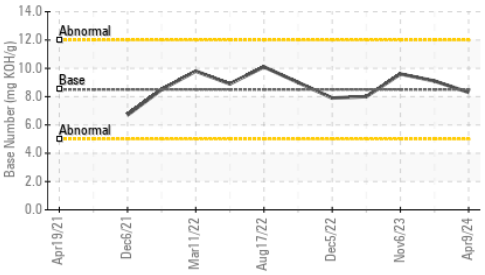
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LW0009004**	LW0008629	LW0007843
Sample Date		Client Info		**09 Apr 2024**	27 Jan 2024	06 Nov 2023
Machine Age	mls	Client Info		**0**	0	0
Oil Age	mls	Client Info		**0**	0	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Filter Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>100	**30**	7	1
Chromium	ppm	ASTM D5185m	>20	**2**	<1	0
Nickel	ppm	ASTM D5185m	>4	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**3**	2	<1
Lead	ppm	ASTM D5185m	>40	**<1**	<1	0
Copper	ppm	ASTM D5185m	>330	**2**	1	<1
Tin	ppm	ASTM D5185m	>15	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**5**	2	2
Potassium	ppm	ASTM D5185m	>20	**2**	2	0
Fuel		WC Method	>5	**<1.0**	▲ 4.7	▲ 25.7
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**0.5**	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	**11.2**	9.5	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.2**	22.1	16.2
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	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m	>75	**0**	0	<1
Boron	ppm	ASTM D5185m	250	**2**	6	2
Barium	ppm	ASTM D5185m	10	**0**	<1	0
Molybdenum	ppm	ASTM D5185m	100	**63**	54	44
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	450	**957**	814	760
Calcium	ppm	ASTM D5185m	3000	**1094**	▲ 896	▲ 807
Phosphorus	ppm	ASTM D5185m	1150	**1090**	922	794
Zinc	ppm	ASTM D5185m	1350	**1227**	1082	993
Sulfur	ppm	ASTM D5185m	4250	**3197**	3554	2434
Oxidation	Abs/.1mm	*ASTM D7414	>25	**21.3**	21.3	11.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	**8.3**	9.1	9.6
Visc @ 100°C	cSt	ASTM D445	10.9	**11.6**	12.1	▲ 8.1

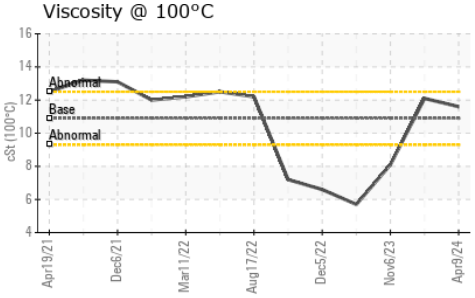
FT-IR (Direct Trend)



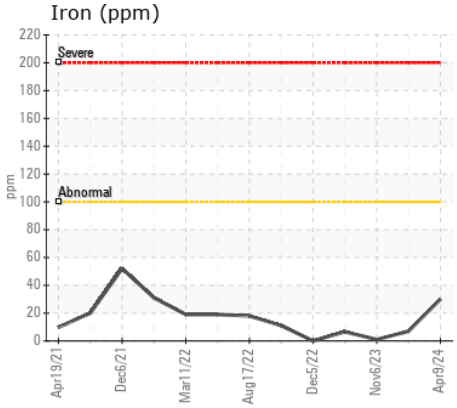
Base Number



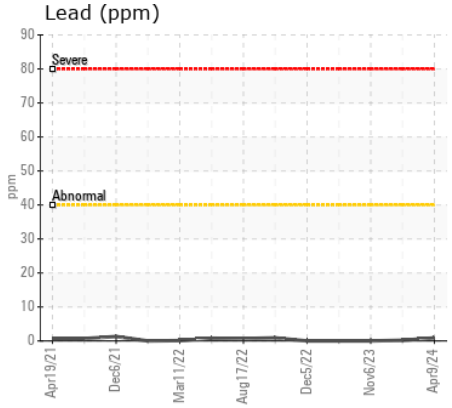
Viscosity @ 100°C



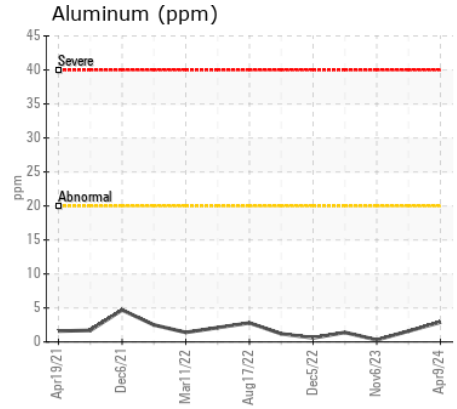
Iron (ppm)



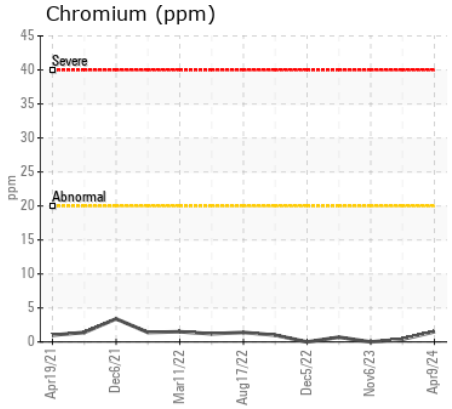
Lead (ppm)



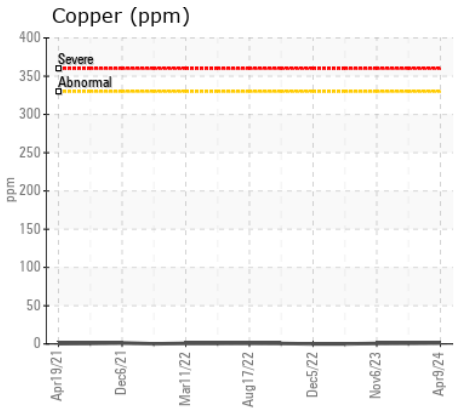
Aluminum (ppm)



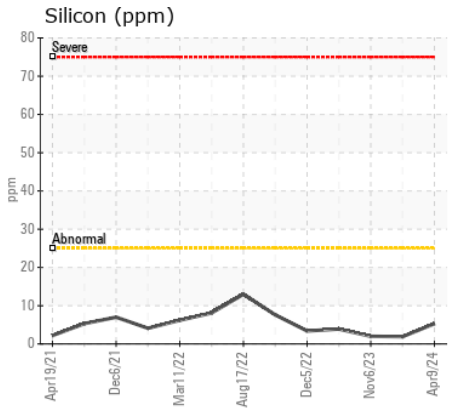
Chromium (ppm)



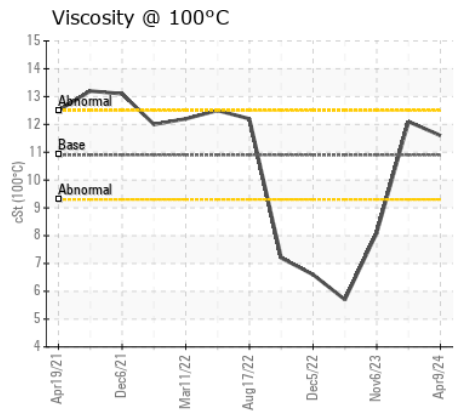
Copper (ppm)



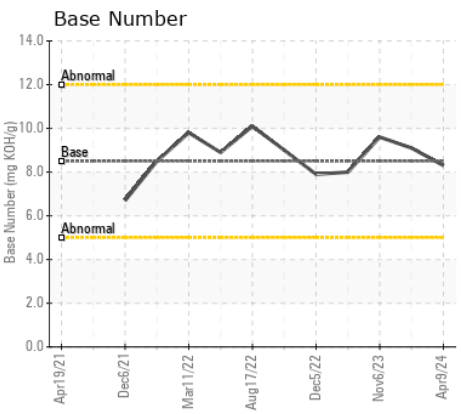
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LW0009004
Lab Number : 06148427
Unique Number : 10978505
Test Package : MOB 1 (Additional Tests: TBN)

Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 16 Apr 2024 - Wes Davis

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)

LRS - NILES
33541 REUM RD
NILES, MI
US 49120
Contact: JOHN HUGHES
johnh@michianarecyclinganddisposal.com
T: (269)684-0900 X:124
F:

Report Id: MICNILMI [WUSCAR] 06148427 (Generated: 04/16/2024 04:31:31) Rev: 1

Submitted By: JEDI ATCHISON