



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Area
Store 5 - Cross Lanes [147309]
Machine Id
BANDIT 18XP 520548
Component
Gasoline Engine
Fluid
GASOLINE ENGINE OIL SAE 10W30 (1 GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046502	LEC0041609	LEC0041913
Sample Date		Client Info		26 Jan 2024	16 Oct 2023	02 Jun 2023
Machine Age	hrs	Client Info		566	467	362
Oil Age	hrs	Client Info		100	104	362
Filter Age	hrs	Client Info		100	104	362
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	41	66	48
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>5	1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 17	50	46
Lead	ppm	ASTM D5185m	>50	8	2	2
Copper	ppm	ASTM D5185m	>155	5	1	4
Tin	ppm	ASTM D5185m	>10	2	9	6
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

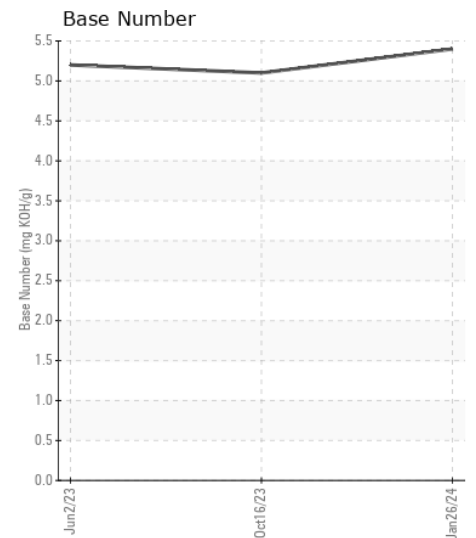
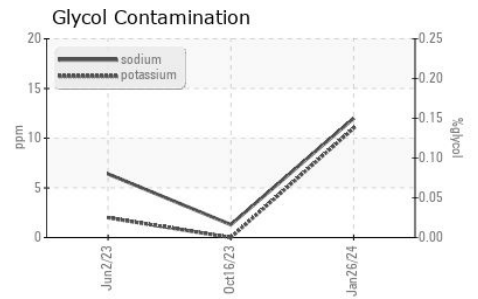
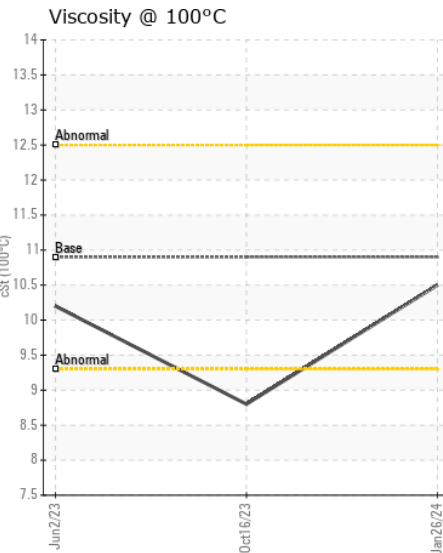
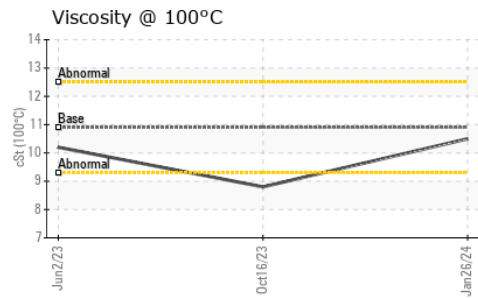
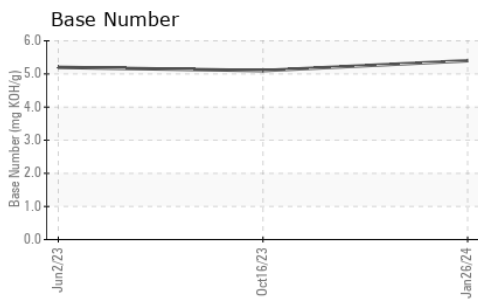
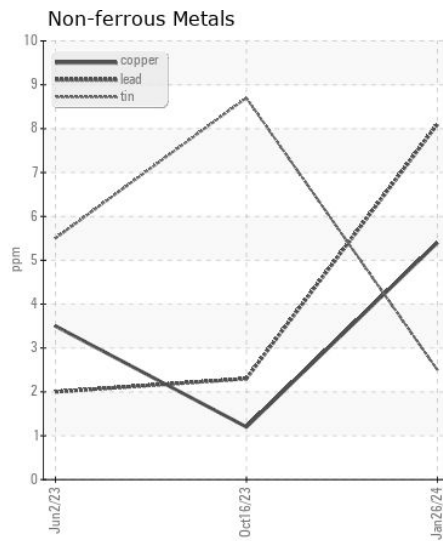
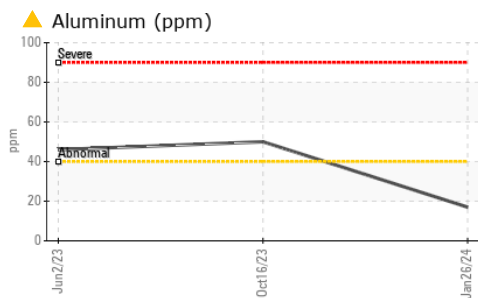
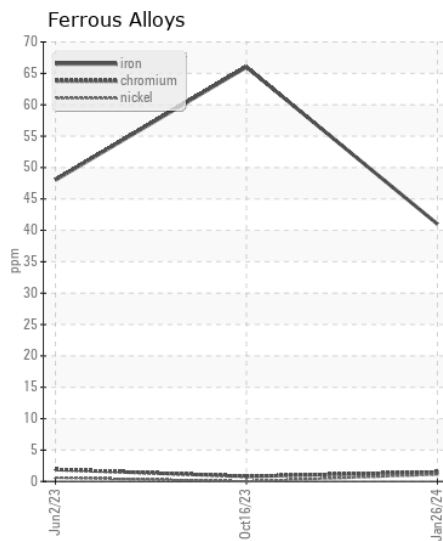
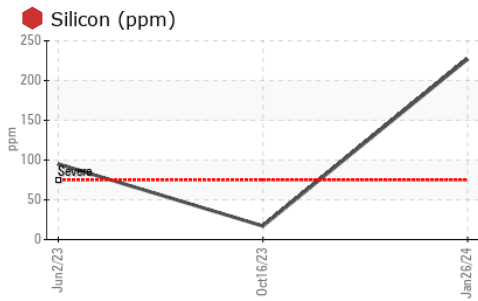
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>120	◆ 227	17	▲ 95
Potassium	ppm	ASTM D5185m	>20	11	0	2
Fuel		WC Method	>4.0	<1.0	0.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.5	5.2	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	13.1	20.4
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

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m	>400	12	1	6
Boron	ppm	ASTM D5185m	75	81	4	131
Barium	ppm	ASTM D5185m	5	1	0	0
Molybdenum	ppm	ASTM D5185m	100	256	54	89
Manganese	ppm	ASTM D5185m		5	1	2
Magnesium	ppm	ASTM D5185m	12	530	394	595
Calcium	ppm	ASTM D5185m	2100	1326	976	1143
Phosphorus	ppm	ASTM D5185m	650	658	592	696
Zinc	ppm	ASTM D5185m	850	838	688	844
Sulfur	ppm	ASTM D5185m	2500	1984	1876	3334
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3	6.5	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		5.4	5.1	5.2
Visc @ 100°C	cSt	ASTM D445	10.9	10.5	▲ 8.8	10.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046502 **Received** : 30 Jan 2024
Lab Number : 06074331 **Tested** : 01 Feb 2024
Unique Number : 10856422 **Diagnosed** : 01 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendallLeanne@lec1.com

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)

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