



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
8327893
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0035059	IL0034290	IL05782808
Sample Date		Client Info		01 Feb 2024	01 Nov 2023	14 Feb 2023
Machine Age	mls	Client Info		195759	160494	64189
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	14	15	67
Chromium	ppm	ASTM D5185m	>20	<1	1	3
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	4	46
Lead	ppm	ASTM D5185m	>40	2	2	7
Copper	ppm	ASTM D5185m	>330	1	2	27
Tin	ppm	ASTM D5185m	>15	<1	1	3
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

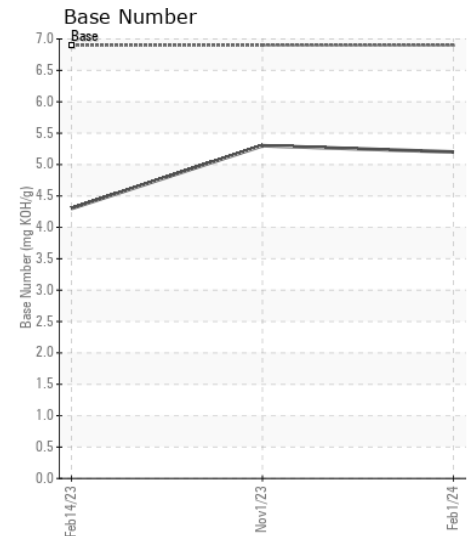
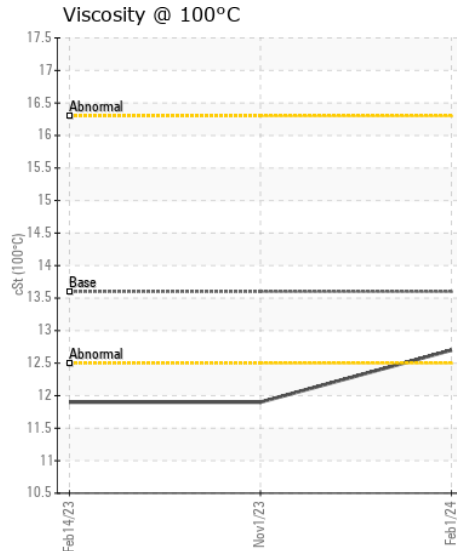
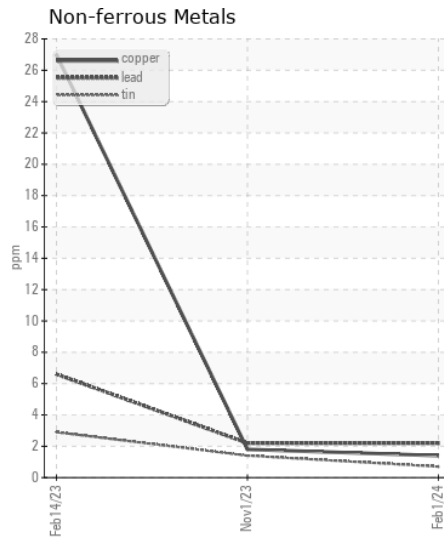
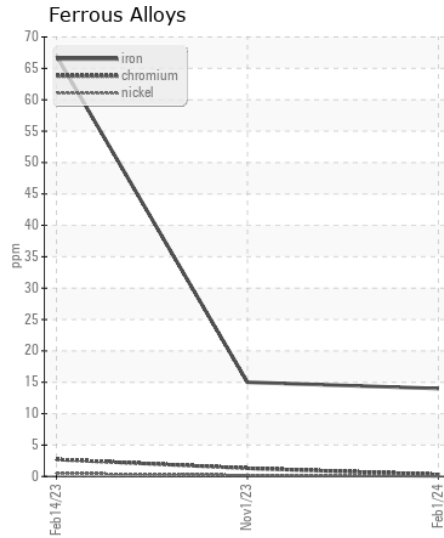
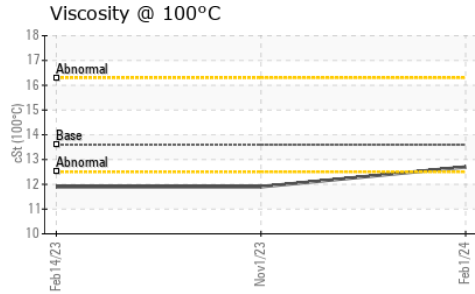
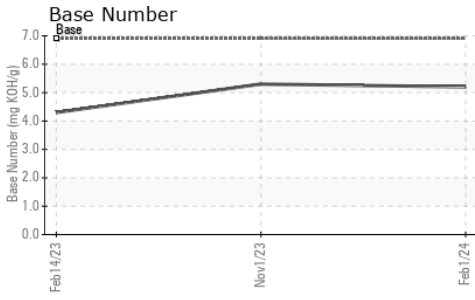
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	8	▲ 39
Potassium	ppm	ASTM D5185m	>20	9	8	123
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.1	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	22.1	26.3
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	2	5
Boron	ppm	ASTM D5185m	39	64	18	15
Barium	ppm	ASTM D5185m	1	25	0	5
Molybdenum	ppm	ASTM D5185m	49	81	89	64
Manganese	ppm	ASTM D5185m	1	0	<1	4
Magnesium	ppm	ASTM D5185m	616	580	682	466
Calcium	ppm	ASTM D5185m	1554	1279	1316	1843
Phosphorus	ppm	ASTM D5185m	899	855	765	950
Zinc	ppm	ASTM D5185m	1069	1058	965	1255
Sulfur	ppm	ASTM D5185m	2624	2648	2401	3124
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.2	25.4
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	5.2	5.3	4.3
Visc @ 100°C	cSt	ASTM D445	13.6	12.7	▲ 11.9	11.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0035059
Lab Number : 06084585
Unique Number : 10872030
Test Package : FLEET

Received : 09 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Wes Davis

TAMPA IDEALEASE
 5951 ORIENT ROAD
 TAMPA, FL
 US 33610-9565
 Contact: Russ Cook
 russcook@idealease.com
 T: (813)626-9285
 F: (844)270-1356

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)