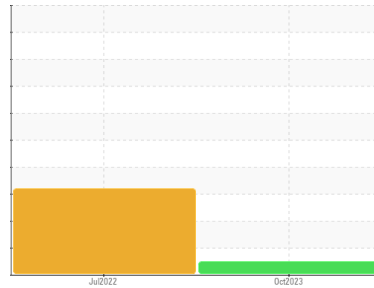




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
YRD 3
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		IL0033230	IL05597816	---
Sample Date	Client Info		04 Oct 2023	01 Jul 2022	---
Machine Age	hrs	Client Info	0	2743	---
Oil Age	hrs	Client Info	15403	0	---
Oil Changed	Client Info		Changed	N/A	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	81	▲ 168	---
Chromium	ppm	ASTM D5185m >20	7	5	---
Nickel	ppm	ASTM D5185m >4	<1	0	---
Titanium	ppm	ASTM D5185m	1	<1	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >20	59	▲ 10	---
Lead	ppm	ASTM D5185m >40	<1	<1	---
Copper	ppm	ASTM D5185m >330	6	57	---
Tin	ppm	ASTM D5185m >15	<1	1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 39	21	10	---
Barium	ppm	ASTM D5185m 1	0	0	---
Molybdenum	ppm	ASTM D5185m 49	62	47	---
Manganese	ppm	ASTM D5185m 1	2	6	---
Magnesium	ppm	ASTM D5185m 616	725	829	---
Calcium	ppm	ASTM D5185m 1554	1292	1060	---
Phosphorus	ppm	ASTM D5185m 899	768	844	---
Zinc	ppm	ASTM D5185m 1069	984	1072	---
Sulfur	ppm	ASTM D5185m 2624	2435	2584	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	11	▲ 25	---
Sodium	ppm	ASTM D5185m	4	4	---
Potassium	ppm	ASTM D5185m >20	86	3	---

INFRA-RED

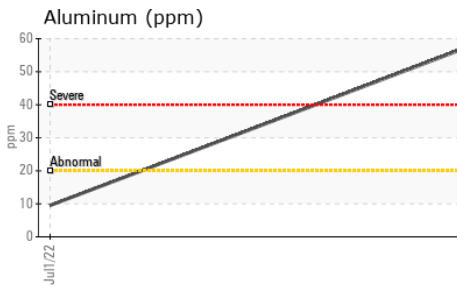
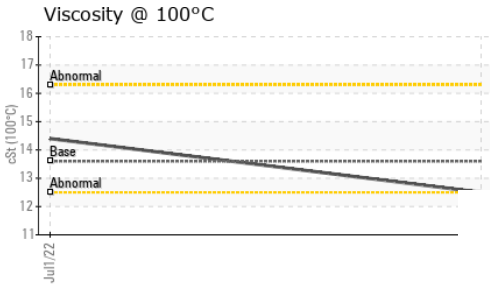
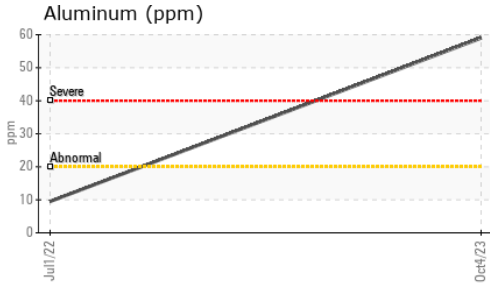
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.3	1.7	---
Nitration	Abs/cm	*ASTM D7624 >20	11.3	21.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.7	34.0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.8	40.0	---
Base Number (BN)	mg KOH/g	ASTM D2896 6.9	4.0	4.2	---



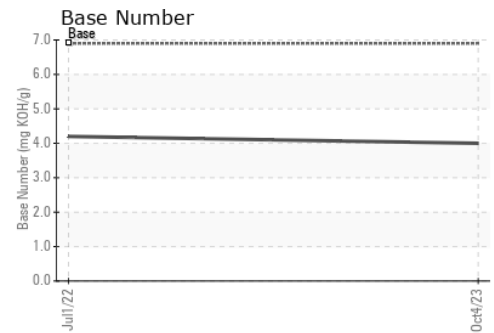
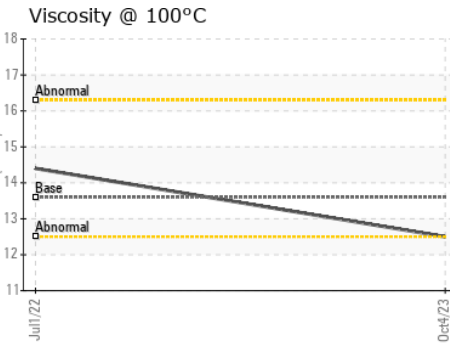
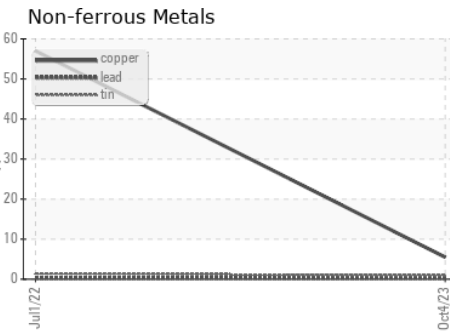
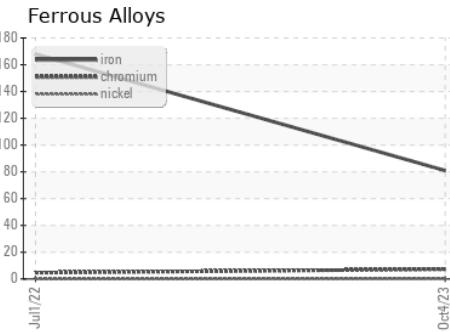
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	13.6	12.5	14.4	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033230 **Received** : 20 Nov 2023
Lab Number : **06011913** **Diagnosed** : 21 Nov 2023
Unique Number : 10751057 **Diagnostician** : Wes Davis
Test Package : FLEET

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)