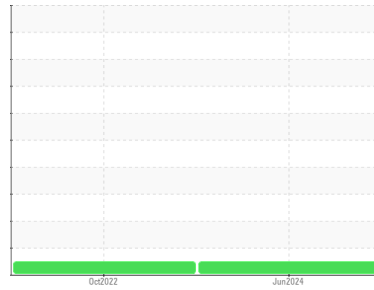




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
831037
 Component
Diesel Engine
 Fluid
RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0112450	GFL0044545	---
Sample Date	Client Info		18 Jun 2024	03 Oct 2022	---
Machine Age	kms	Client Info	75133	0	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<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 D5185(m)	>90	22	8	---
Chromium	ppm	ASTM D5185(m)	>20	2	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	3	2	---
Lead	ppm	ASTM D5185(m)	>40	11	<1	---
Copper	ppm	ASTM D5185(m)	>330	2	1	---
Tin	ppm	ASTM D5185(m)	>15	1	<1	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	50	10	10	---
Barium	ppm	ASTM D5185(m)	5	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	50	57	51	---
Manganese	ppm	ASTM D5185(m)	0	1	<1	---
Magnesium	ppm	ASTM D5185(m)	560	618	517	---
Calcium	ppm	ASTM D5185(m)	1510	1735	1510	---
Phosphorus	ppm	ASTM D5185(m)	780	786	678	---
Zinc	ppm	ASTM D5185(m)	870	1002	849	---
Sulfur	ppm	ASTM D5185(m)	2040	2015	1946	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	5	4	---
Sodium	ppm	ASTM D5185(m)		9	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	12.9	11.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.8	22.2	---

