

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



## Machine Id 912070

#### Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on 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.

		Feb 202	3 Jun 2023	0+2023 Ne	2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098246	GFL0083906	GFL0061510
Sample Date		Client Info		16 Nov 2023	03 Oct 2023	05 Jun 2023
Machine Age	hrs	Client Info		2476	2140	0
Oil Age	hrs	Client Info		2476	2140	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	37	27	30
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	11	8	9
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	5	4	4
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	1	3
Barium	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	59	61	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	927	1014	970
Calcium	ppm	ASTM D5185m	3000	1052	1142	1215
Phosphorus	ppm	ASTM D5185m	1150	919	1010	978
Zinc	ppm	ASTM D5185m	1350	1210	1293	1287
Sulfur	ppm	ASTM D5185m	4250	2450	2569	3161
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	9	9	6
Sodium	ppm	ASTM D5185m	>216	<1	2	1
Potassium	ppm	ASTM D5185m	>20	13	12	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.3	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	22.3	21.1
	DATION	method	limit/base	current	history1	history2
TEOD DEGINE						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	19.4	16.9



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VISUAL





Certificate L2367

Submitted By: TECHNICIAN ACCOUNT