

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Area (SB14912) 813108 Component

**Diesel Engine** 

## DIESEL ENGINE OIL SAE 15W40 (--- GAL)

	(	-,		Nov2023	Mar2024		
DIAGNOSIS	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0113007	GFL0098414	
Oil and filter change at the time of sampling has	Sample Date		Client Info		08 Mar 2024	08 Nov 2023	
been noted. No corrective action is recommended	Machine Age	nrs	Client Info		1272	602	
at this time. Resample at the next service interval to	Oil Age h	nrs	Client Info		1272	602	
monitor.	Oil Changed		Client Info		Changed	Changed	
Wear	Sample Status				ABNORMAL	ABNORMAL	
The nickel level has decreased, but is still abnormal. All other component wear rates are	CONTAMINATIC	N	method	limit/base	current	history1	history2
normal.	Fuel		WC Method	>3.0	<1.0	0.3	
Contamination	Water		WC Method	>0.2	NEG	NEG	
There is no indication of any contamination in the oil.	Glycol		WC Method		NEG	NEG	
Fluid Condition	WEAR METALS		method	limit/base	current	history1	history2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	lron p	opm	ASTM D5185m	>120	31	66	
	Chromium p	opm	ASTM D5185m	>20	1	2	
	Nickel p		ASTM D5185m		<u> </u>	<b>1</b> 21	
			ASTM D5185m	>2	0	<1	
		opm	ASTM D5185m		<1	1	
			ASTM D5185m	>20	2	5	
	Lead	opm	ASTM D5185m	>40	<1	0	
	-		ASTM D5185m	>330	126	135	
		opm	ASTM D5185m	>15	1	3	
			ASTM D5185m		0	0	
		opm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron p	opm	ASTM D5185m	250	6	229	
	Barium	opm	ASTM D5185m	10	0	0	
	Molybdenum p	opm	ASTM D5185m	100	69	126	
			ASTM D5185m		1	7	
	Magnesium p	opm	ASTM D5185m	450	938	662	
			ASTM D5185m	3000	1078	1463	
	Phosphorus p	opm	ASTM D5185m	1150	958	671	
		opm	ASTM D5185m	1350	1181	843	
	Sulfur p	opm	ASTM D5185m	4250	2550	2480	
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon p	opm	ASTM D5185m	>25	9	66	
	Sodium p	opm	ASTM D5185m	>158	<1	2	
	Potassium p	opm	ASTM D5185m	>20	3	12	
	INFRA-RED		method	limit/base	current	history1	history2
	Soot % %	%	*ASTM D7844	>4	0.8	0.7	
	Nitration A	Abs/cm	*ASTM D7624	>20	9.1	10.7	
	Sulfation A		*ASTM D7415		20.6	24.9	
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation A	Abs/.1mm	*ASTM D7414	>25	16.9	22.8	

Base Number (BN) mg KOH/g ASTM D2896 8.5

7.7

6.7



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