

PROBLEM SUMMARY



DIRT

COMPONENT CONDITION SUMMARY



Aluminum (ppm)

Sample Rating Trend



RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	
Silicon	ppm	ASTM D5185m	>25	A 34	

Customer Id: GFL035 Sample No.: GFL0085166 Lab Number: 06000239 Test Package: FLEET



To manage this report scan the QR code

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To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



Area GFL035 Machine Id 934043 Component Diesel Engine Fluid NOT GIVEN (40 QTS)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

A Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085166		
Sample Date		Client Info		02 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	54		
Chromium	mag	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	17		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8		
Barium	ppm	ASTM D5185m		10		
Molybdenum	ppm	ASTM D5185m		54		
Manganese	ppm	ASTM D5185m		13		
Magnesium	ppm	ASTM D5185m		706		
Calcium	ppm	ASTM D5185m		1240		
Phosphorus	ppm	ASTM D5185m		739		
Zinc	ppm	ASTM D5185m		891		
Sulfur	ppm	ASTM D5185m		2518		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<mark>/</mark> 34		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	79		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0		
Nitration	Abs/cm	*ASTM D7624	>20	12.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8		
Base Number (BN)	mg KOH/g	ASTM D2896		4.2		



OIL ANALYSIS REPORT



Submitted By: JORGE COSTA