

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934C 020477-027 - Diesel Fuel

Sample No: LH0266001

Oil Type: DIESEL FUEL No. 2

Orloff Enterprises

410 King Street

Winnipeg, MB

CA R2W 5H8

Contact: Service Manager

T:

F:

Diagnosis

We advise that you check all areas where contaminants can enter the system. Check with fluid supplier for the availability of biocides to control the microorganisms in the system. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Recommend resampling in 10 days. Resample in 30-45 days to monitor this situation. Iron ppm levels are abnormal. A moderate concentration of ferrous red oxide (rust) particles, Moderate concentration of visible metal present. The high metal levels indicate corrosion in the system. Red oxides are more commonly referred to as rust and are typically caused by water present in the lubricant. There is a high amount of particulates (2 to 100 microns in size) present in the fuel. There is a high concentration of water present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample. Elevated bacteria counts. No reportable mold present. No reportable yeast present. The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



SAMPLE INFORMATION

Sample Number		LH0266001	---	---	---
Sample Date		26 Jul 2023	---	---	---
Machine Hours		0	---	---	---
Sample Status		SEVERE	---	---	---



FUEL CONDITION

Sulfur	ppm	● 8	---	---	---
Visc @ 40°C	cSt	● 2.7	---	---	---



CONTAMINATION

Water	%	● 43.27	---	---	---
Bacteria	CFU/ml	● 100000	---	---	---
Yeast	CFU/ml	● 0	---	---	---
Mold	Colonies	● LIGHT	---	---	---
Lead	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Aluminum	ppm	● 0	---	---	---
Vanadium	ppm	● 0	---	---	---
Silicon	ppm	● 0	---	---	---

Depot: ORLWIN
 Unique No: 5619711
 Signed: Kevin Marson
 Report Date: 15 Aug 2023



GRAPHS

Pensky-Martens Flash Point (°C)



GCD Spectrum

