# LIEBHERR

# **FUEL REPORT**

Sample Rating Trend

NORMAL



Machine Id

# LIEBHERR 24459

Component **Diesel Fuel** 

{not provided} (--- LTR)

#### Recommendation

This is a baseline read-out on the submitted sample.

#### Corrosion

All metal levels are normal indicating no corrosion in the system.

### Contaminants

The water content is negligible. There is no indication of any contamination in the fuel.

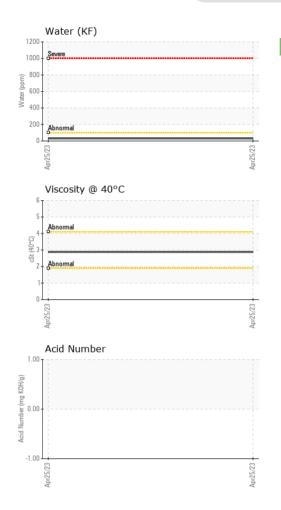
#### **Fuel Condition**

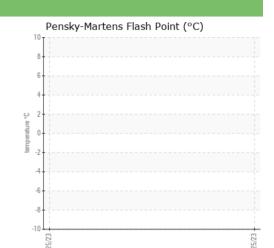
The condition of the fuel is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LH0220489		
Sample Date		Client Info		25 Apr 2023		
Machine Age	hrs	Client Info		897		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		2.88		
SULFUR CONTE	٧T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	< 0.05	0.003		
ppm Water	ppm	ASTM D6304	< 500	30.0		
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	< 0.1	0		
Nickel	ppm	ASTM D5185m	< 0.1	0		
Lead	ppm	ASTM D5185m	< 0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	< 0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	< 0.1	<1		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Zinc	ppm	ASTM D5185m	< 0.1	0		
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

## LIEBHERR

# **FUEL REPORT**







Certificate 12367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Sample No.** : LH0220489 Lab Number : 05840167 Unique Number : 10458970

Received **Tested** Diagnosed Test Package : MOBCE ( Additional Tests: KF )

: 05 May 2023 : 10 May 2023 : 10 May 2023 - Jonathan Hester

LIEBHERR MINING EQUIPMENT CO 5800 S DOUGLAS HWY GILLETTE, WY

US 82718 Contact: TED PILZ ted.pilz@liebherr.com T: (775)388-0663

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: TED PILZ - LIEGIL