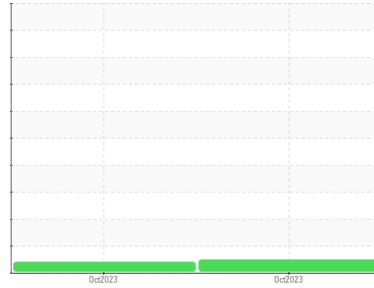


Area
[BIGGIE CRANE]
 Machine Id
LIEBHERR LR1700 046254
 Component
Diesel Fuel
 Fluid
NOT GIVEN (--- LTR)



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. No corrective action is recommended at this time.

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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			LH0236081	LH0254448	---
Sample Date	Client Info			26 Oct 2023	25 Oct 2023	---
Machine Age	hrs	Client Info		1626	1626	---
Sample Status				NORMAL	ABNORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		2.79	2.82	---


SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		5	10	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	<1	---
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	---
Potassium	ppm	ASTM D5185m	<0.1	0	0	---
Water	%	ASTM D6304	<0.05	0.003	0.002	---
ppm Water	ppm	ASTM D6304	<500	25.2	22.7	---


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	0	---
Iron	ppm	ASTM D5185m	<0.1	0	0	---
Calcium	ppm	ASTM D5185m	<0.1	2	0	---
Magnesium	ppm	ASTM D5185m	<0.1	0	0	---
Phosphorus	ppm	ASTM D5185m	<0.1	2	0	---
Zinc	ppm	ASTM D5185m	<0.1	0	2	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				



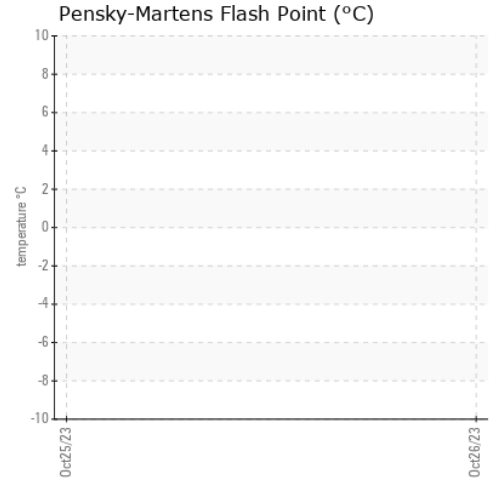
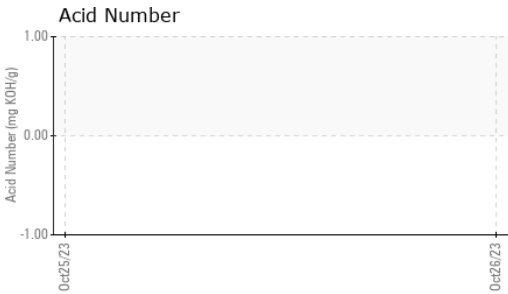
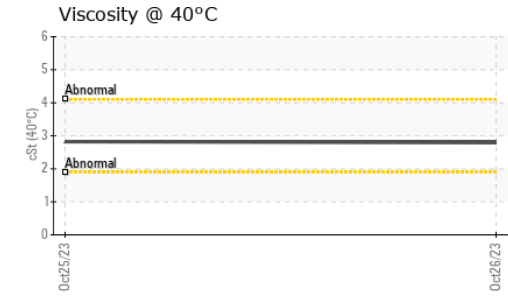
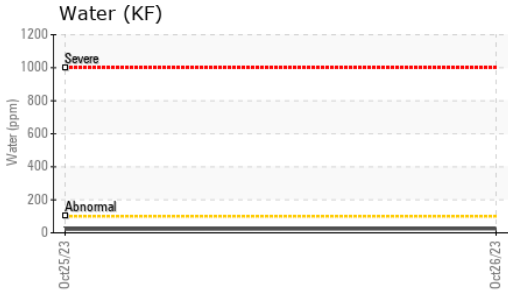
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FUEL REPORT

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0236081 **Received** : 03 Nov 2023
Lab Number : 05998555 **Diagnosed** : 07 Nov 2023
Unique Number : 10726915 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: KF, SCREEN)

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: JOHNATHAN SMITH
 johnathan.smith@liebherr.com

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)

T:
F: