

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR PR776 25121-1296 - Diesel Engine

Sample No: LH0265075

Oil Type: PETRO CANADA DURON HP 15W40



**KMC MINING CORPORATION**  
 28712 114 AVENUE  
 ACHESON, AB  
 CA T7X 6E6  
 Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	LH0265075	---	---	---
Sample Date	17 Oct 2023	---	---	---
Machine Hours	1072	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	17.3	---	---	---
Oxidation (PA)	%	52	---	---	---



#### CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	0.665	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	385	---	---	---
Potassium	ppm	47	---	---	---



#### WEAR METALS

Iron	ppm	4	---	---	---
Copper	ppm	106	---	---	---
Lead	ppm	3	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	57	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	972	---	---	---
Magnesium	ppm	867	---	---	---
Zinc	ppm	1134	---	---	---
Phosphorus	ppm	998	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	4	---	---	---

T:  
F:

#### Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** KMCACH  
**Unique No:** 5667959  
**Signed:** Kevin Marson  
**Report Date:** 23 Oct 2023



### GRAPHS

