

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 055158-1705 - Diesel Engine

Sample No: LH0269718

Oil Type: LIEBHERR MOTOROIL 5W30



IDEAL EARTH WORKS INC
 54229 RANGE RD. 262
 STURGEON COUNTY, AB
 CA T8T 0Z5
 Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0269718	---	---	---
Sample Date	16 Sep 2023	---	---	---
Machine Hours	720	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.0	---	---	---
Oxidation (PA)	%	184	---	---	---

T:
F:



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	93	---	---	---
Sulfation (PA)	%	104	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	60	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	3	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	29	---	---	---
Copper	ppm	15	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	39	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1731	---	---	---
Magnesium	ppm	786	---	---	---
Zinc	ppm	927	---	---	---
Phosphorus	ppm	841	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	91	---	---	---

Depot: IDESTU
Unique No: 5644857
Signed: Bill Quesnel
Report Date: 21 Sep 2023



GRAPHS

