

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8130 185282 (S/N GFL286) - Diesel Engine

Sample No: LH0286605

Oil Type: PETRO CANADA SUPREME 5W30



Sample Information

Sample Number	LH0286605	LH0277808	LH0265748	LH0247059
Sample Date	14 Jun 2024	17 Nov 2023	02 Jun 2023	03 Feb 2023
Machine Hours	9030	8008	7105	6292
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

Visc @ 40°C	cSt	---	65.8	---	---
Visc @ 100°C	cSt	11.0	11.1	11.2	11.2
Viscosity Index (VI)	Scale	---	161	---	---
Oxidation (PA)	%	80	80	81	88

T: (519)631-4095

F: (519)631-2745

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	82	81	85	97
Sulfation (PA)	%	58	58	60	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	2	2
Sodium	ppm	5	5	6	11
Potassium	ppm	1	0	<1	3



Wear Metals

Iron	ppm	4	4	6	10
Copper	ppm	2	3	3	5
Lead	ppm	0	<1	2	5
Tin	ppm	0	0	0	0
Aluminum	ppm	1	2	1	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	59	58	44	14
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	834	868	1319	2080
Magnesium	ppm	1097	1082	810	270
Zinc	ppm	1201	1185	1081	880
Phosphorus	ppm	989	988	983	800
Barium	ppm	<1	<1	0	<1
Boron	ppm	23	26	25	6

Depot: HIGSTT

Unique No: 5800857

Signed: Wes Davis

Report Date: 21 Jun 2024



Graphs

