

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 046356-1334 - Diesel Engine

Sample No: LH0277393

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0277393	LH0238575	LH0230526	LH0226959
Sample Date	04 Jan 2024	17 Sep 2022	10 May 2022	01 May 2022
Machine Hours	4931	11615	10602	3241
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MODERN CONSTRUCTION (1983) LTD.
 364 BRIGGS CROSS ROAD
 STILESVILLE, NB
 CA E1G 3G3
 Contact: Blaine Cail
 blaine.cail@moderngroup.ca
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.2	11.7	12.4	13.4
Oxidation (PA)	%	72	89	83	73



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	75	87	83	84
Sulfation (PA)	%	57	65	66	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	10
Sodium	ppm	2	5	4	2
Potassium	ppm	2	0	<1	4

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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	12	6	7	5
Copper	ppm	2	2	3	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	53	59	62	61
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1211	876	967	1070
Magnesium	ppm	878	1155	1154	1060
Zinc	ppm	1223	1266	1310	1279
Phosphorus	ppm	1031	1096	1114	1071
Barium	ppm	0	0	0	<1
Boron	ppm	16	16	10	4

Depot: MODSTI
 Unique No: 5708007
 Signed: Kevin Marson
 Report Date: 08 Jan 2024



GRAPHS

