

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R974CEW 044496-1084 - Diesel Engine

Sample No: LH0261118

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0261118	LH	LH0260968	LH0260777
Sample Date	21 Nov 2023	29 Sep 2023	23 Jun 2023	25 May 2023
Machine Hours	12403	0	0	11735
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

QIT - Rio Tinto Fer et Titane Inc.

1625 Rte Marie Victorin

Sorel-Tracy, QC

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OIL CONDITION

Visc @ 100°C	cSt	11.8	13.5	14.0	12.5
Oxidation (PA)	%	65	53	55	64



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0	2.5
Nitration (PA)	%	59	49	43	73
Sulfation (PA)	%	54	50	50	66
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	10	4
Sodium	ppm	4	2	5	4
Potassium	ppm	0	2	12	<1



WEAR METALS

Iron	ppm	7	9	9	22
Copper	ppm	2	4	6	1
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	51	54	49	58
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	1	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	0	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	945	1179	1135	1009
Magnesium	ppm	1015	888	946	1004
Zinc	ppm	1200	1185	1126	1172
Phosphorus	ppm	1024	1038	1037	1072
Barium	ppm	1	5	21	0
Boron	ppm	29	4	28	34

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: QITGARAGE

Unique No: 5684026

Signed: Wes Davis

Report Date: 27 Nov 2023



GRAPHS

