LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0281547

Oil Type: PETRO CANADA SUPREME 5W30

<u> </u>					
SAME	PLE INFOR	RMATION			
Sample Number		LH0281547	LH0247292		
Sample Date		28 Dec 2023	27 Jun 2023		
Machine Hours		999	474		
Oil Hours		0	0		
Oil Changed		N/A	N/A		
Sample Status		NORMAL	NORMAL		
OILCO	ONDITION	4			
Visc @ 40°C	cSt		O 70.5		
Visc @ 100°C	cSt	11.9	O 12.0		
Viscosity Index (VI)	Scale		O 167		
Oxidation (PA)	%	221	197		
CONT	AMINAT	ION			
			NEC		
Water Soot %	%	NEG	NEG		
	%	0.1	0 0		
Nitration (PA)	%	119	106		
Sulfation (PA)	%	115	106		
Glycol	%	NEG	NEG		
Fuel Silicon	%	<1.0	<1.0		
	ppm	9	0 8		
Sodium	ppm	O 2	0 2		
Potassium	ppm	203	O 133		
◎ WEAT		_			
WEAF	R METALS				
Iron	ppm	39	O 20		
Copper	ppm	53	O 49		
Lead	ppm	14	0 2		
Tin	ppm	2	01		
Aluminum	ppm	58	40		
Chromium	ppm	2	0 1		
Molybdenum	ppm	Q 42	O 40		
Nickel	ppm	O <1	O <1		
Titanium	ppm	0	<1		
Silver	ppm	0 <1	O <1		
Manganese	ppm	2	02		
Vanadium	ppm	0	0		
ADDITIVES					
Calcium	ppm	1468	1436		
Magnesium	ppm	825	0 805		
Zinc	ppm	843	0 825		
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LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8

Contact: Joseph Gillis joseph.gillis@liebherr.com

T: F: (905)319-6622

1. (903)319-002

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
Unique No: 5707281
Signed: Kevin Marson
Report Date: 03 Jan 2024

Contact/Location: Joseph Gillis - LIEMIS

ppm

ppm

ppm

674

64

19

Phosphorus

Barium

Boron

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GRAPHS

