CONSTRUCTION EQUIPMENT

Sample No: LH0278857

Oil Type: PETRO CANADA 10W40

%

%

ppm

ppm

ppm

Glycol

Silicon

Sodium

Potassium

Fuel





American Iron and Metal 2555 Sheffield Road **CA K1B 3V6** Contact: Dan Dupelle

ddupelle@aim-rg.com T: (613)228-9380

F: (613)745-0692

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Viscosity of sample indicates oil is within SAE 30 range, advise investigate.

Sam	ple Info	rmation			
Sample Number		LH0278857	LH0277753	LH0270562	LH0222875
Sample Date		30 Apr 2024	08 Jan 2024	25 Sep 2023	09 May 2023
Machine Hours		8543	8104	7608	7133
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
Visc @ 100°C	onditio	n ○ 11.4	O 13.0		
Oxidation (PA)	%	81	67	65	69
Cont	aminat	ion			
Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	O 0	O 0	0
Nitration (PA)	%	88	73	74	84
Sulfation (PA)	%	57	53	53	54

NEG

<1.0

NEG

02

NEG

<1.0

6

02

1.1

6

4

 \bigcirc 0

NEG

Wear	Metals				
Iron	ppm	4	O 4	O 5	O 5
Copper	ppm	○ <1	O <1	3	3
Lead	ppm	0	O <1	1	O <1
Tin	ppm	0	O 0	O 0	O <1
Aluminum	ppm	1	1	2	O 1
Chromium	ppm	0	O 0	0	0
Molybdenum	ppm	58	57	59	59
Nickel	ppm	0	O 0	O 0	O <1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	O 0	O <1	0
Manganese	ppm	0	O 0	0	O <1
Vanadium	ppm	0	0	0	0

Additives								
Calcium	ppm	844	O 1132	O 1127	O 1133			
Magnesium	ppm	1086	925	976	O 950			
Zinc	ppm	1170	O 1162	O 1244	O 1241			
Phosphorus	ppm	973	O 1000	O 1021	1111			
Barium	ppm	0	0	<1	O 0			
Boron	ppm	30	6	1	0 1			

Depot: **BAKOTT** Unique No: 5775001 Signed: Kevin Marson **Report Date:** 08 May 2024

LIEBHERR

CONSTRUCTION EQUIPMENT





Graphs

