CONSTRUCTION EQUIPMENT



Sample No: LH0292409

Oil Type:

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Sample Information	ition		
Sample Number	LH0292409	LH0243062	
Sample Date	18 Jun 2024	17 Jan 2023	
Machine Hours	1937	641	
Oil Hours	0	0	
Oil Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	

PETRO CANADA SUPREME SYNTHETIC 5W40

Oil Condition							
Visc @ 40°C	cSt		72.7				
Visc @ 100°C	cSt	0 13.2	0 12.0				
Viscosity Index (VI)	Scale		0 161				
Oxidation (PA)	%	81	187				

Contamination						
Water	%	NEG	NEG			
Soot %	%	0	0			
Nitration (PA)	%	76	98			
Sulfation (PA)	%	65	103			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	<1.0			
Silicon	ppm	07	27			
Sodium	ppm	03	○ 3			
Potassium	ppm	8 🔘	0 4			

Wear Metals

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Iron	ppm	0 11	0 11	
Copper	ppm	0 6	225	
Lead	ppm	0 🔘	8 🔘	
Tin	ppm	0 🔘	01	
Aluminum	ppm	04	3	
Chromium	ppm	○ <1	○ <1	
Molybdenum	ppm	9	◯ 39	
Nickel	ppm	○ <1	○ <1	
Titanium	ppm	<1	<1	
Silver	ppm	0 (0	
Manganese	ppm	○ <1	0 1	
Vanadium	ppm	0	0	

Additives						
Calcium	ppm	1826	1542			
Magnesium	ppm	219	○ 799			
Zinc	ppm	0 1109	948			
Phosphorus	ppm	908	837			
Barium	ppm	() <1	35			
Boron	ppm	98	○ 55			



Delsan - American Iron and Metal 2187 Montee Masson

Laval, QC CA H7B 0A6 Contact: MANNY MARQUES mmarques@delsan-aim.com T: F:

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) 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.

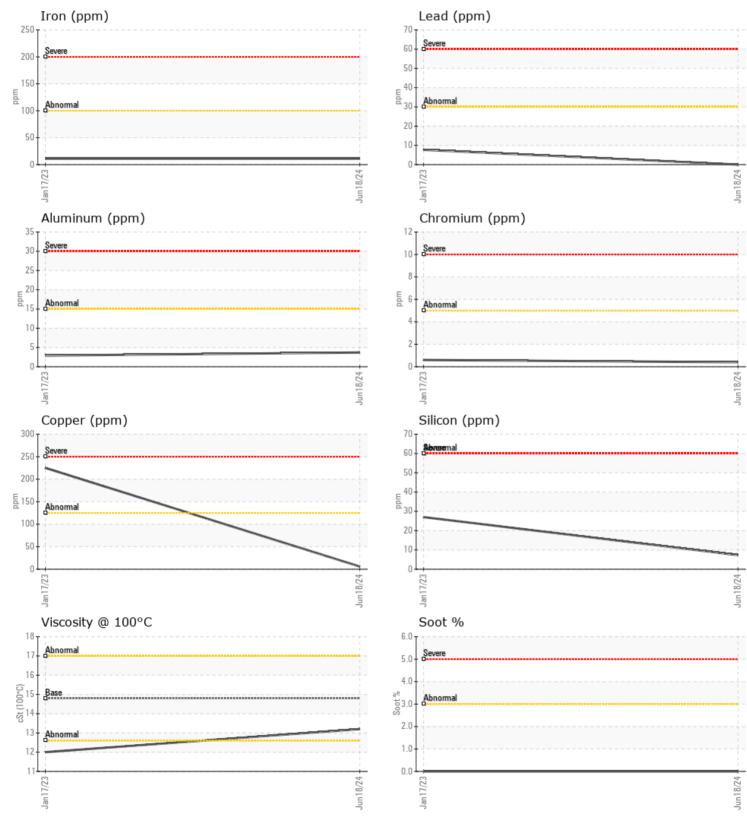
Depot: Unique No: Signed: Report Date: DEL782MON 5801641 Wes Davis 26 Jun 2024 Submitted By: ?

LEBHERR CONSTRUCTION EQUIPMENT



Graphs

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