CONSTRUCTION EQUIPMENT



Sample No: LH0278860

Oil Type: PETRO CANADA SUPREME 10W40 MOTOR OIL

		RMATION			
Sample Number		LH0278860	LH0274669	LH0261821	LH0247322
Sample Date		11 Jan 2024	11 Aug 2023		16 Feb 2023
			-	19 May 2023	
Achine Hours		9661	0	8213	7639
Dil Hours		0	0	0	0
Dil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	ABNORMAL	NORMAL
OIL C	ONDITIC	N			
/isc @ 40°C	cSt		88.6		
/isc @ 100°C	cSt	0 13.9	0 13.5	0 11.4	0 13.2
/iscosity Index (VI)			0 154		
Dxidation (PA)	%	58	62	75	62
	/0		02	10	0L
	AMINA '	TION			
Vater	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	51	58	75	62
Sulfation (PA)	%	51	55	55	57
Blycol	%	NEG	NEG	NEG	NEG
uel	%	<1.0	<1.0	2.8	<1.0
Silicon	ppm	0 5	8	6	04
Sodium	ppm	01	02	04	02
Potassium	ppm	○ <1	○ <1	○ <1	0
	R METAL	S			
ron	ppm	02	07	5	04
Copper	ppm	○ <1	○ <1	0 1	○ <1
.ead	ppm	() <1	◯ <1	0	◯ <1
īn	ppm	0	0	0	◯ <1
Aluminum	ppm	02	01	02	01
Chromium	ppm	0	○ <1	◯ <1	0
/lolybdenum	ppm	56	58	62	57
lickel	ppm	○ <1	0	0 <1	0
ītanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0 <1	0 <1	0 <1
/anadium	ppm	0	0	0	0
	TIVES				
Calcium	ppm	0 1032	0 1019	888	0 1063
	ppm	934	991	0 1099	947
/lagnesium				0 1187	1171
-	ppm	1134	1173	() 1107	
Zinc	ppm ppm	1134 991			
Magnesium Zinc Phosphorus Barium	ppm ppm ppm	991 0	1055 0	0 1077 0 0	1060



Waterford Sand and Gravel Ltd.

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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. 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:

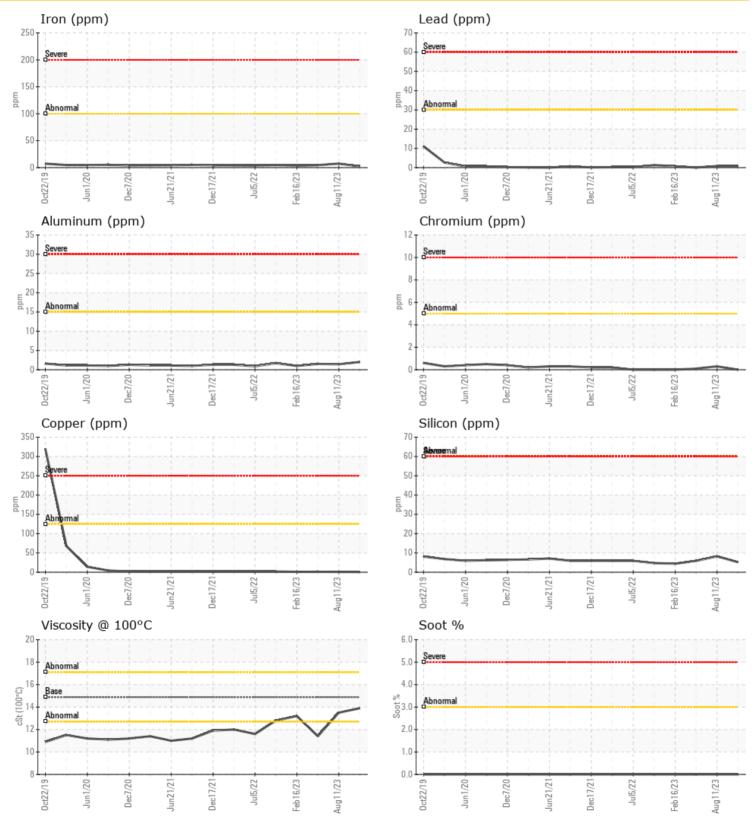
WAT70BRA2 5710059 Wes Davis 16 Jan 2024





GRAPHS

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