CONSTRUCTION EQUIPMENT



[[577894]] LIEBHERR R934CEW 036784-027 - Splitter Box

Sample No: LH0250390

Oil Type: **GEAR OIL SAE 80W90**

Sample Date 08 Nov 2023 15 Feb 2018 06 Sep 2016 12 May 2016 Machine Hours 5342 7813 4957 4368 00 0 0 0 0 0 0 0 0	5					
Sample Date 08 Nov 2023 15 Feb 2018 06 Sep 2016 12 May 2016 Machine Hours 5342 7813 4957 4368 00 0 0 0 0 0 0 0 0	U SAM	IPLE INFO	RMATION			
Machine Hours 5342 7813 4957 4368 Oil Hours 0 0 0 0 Oil Changed Changed Changed Changed Sample Status NORMAL ABNORMAL ABNORMAL OIL CONDITION Visc @ 40°C cSt ● 113 ● 99.8 ● 99.2 ● 98.6 CONTAMINATION Silicon ppm ● 2	Sample Number		LH0250390	LH0124811	LH0104771	LH0104739
Oil Changed	Sample Date		08 Nov 2023	15 Feb 2018	06 Sep 2016	12 May 2016
Changed Changed Changed Changed Changed Changed Changed Changed ABNORMAL ABNOR	Machine Hours		5342	7813	4957	4368
Oil CONDITION Oil CONDITION Oil CONDITION Oil CONDITION Oil CONTAMINATION	Oil Hours		0	0	0	0
Oil CONDITION Oil CONDITION Oil CONDITION Oil CONDITION Oil CONTAMINATION	Oil Changed		Changed	Changed	Changed	Changed
CONTAMINATION Silicon	Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Visc @ 40°C	A					
CONTAMINATION Silicon	OIL	ONDITIO	N			
Silicon	Visc @ 40°C	cSt	113	O 99.8	99.2	98.6
Silicon	ada .					
Sodium	CON	TAMINA	TION			
Sodium	Silicon	maa	O 24	O 13	O 10	O 10
Potassium ppm Q 24	Sodium		_		_	
WEAR METALS Iron	Potassium			O 44	0 <1	
State Sta		pp	0 = 1	0 11	0	
Copper ppm 2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <th< td=""><td>WEA</td><td>R METAI</td><td>LS</td><td></td><td></td><td></td></th<>	WEA	R METAI	LS			
Lead	Iron	ppm	9 1	3 7	O 21	18
Tin ppm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Copper	ppm	2	O <1	 <1	O <1
Aluminum ppm 8 4 4 4 4 4 4 4 4 4 6 4 6 4 6 4 6 4 6 4	Lead	ppm	() <1	O 0	 <1	O <1
Chromium ppm 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Tin	ppm	0	O 0	O <1	0
Molybdenum ppm 0 <t< td=""><td>Aluminum</td><td>ppm</td><td>8</td><td>4</td><td>4</td><td>4</td></t<>	Aluminum	ppm	8	4	4	4
Nickel ppm <1 0 0 0 0 Titanium ppm 0 <1	Chromium	ppm	1	O <1	 <1	O <1
Titanium ppm 0 < 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Molybdenum	ppm	0	O 0	O 0	O 0
Silver ppm < 1 0 0 0 0 0 Manganese ppm	Nickel	ppm	() <1	O 0	0	O 0
Manganese ppm <1	Titanium	ppm	0	<1	0	0
Vanadium ppm 0 0 0 0 ADDITIVES Calcium ppm 15 12 10 9 Magnesium ppm 1 1 0 <1	Silver	ppm	<1	0	0	0
ADDITIVES Calcium	Manganese	ppm	() <1	O <1	O <1	O <1
Calcium ppm 15 12 10 9 Magnesium ppm 1 1 0 <1 Zinc ppm 56 77 61 51 Phosphorus ppm 1461 1353 1399 1381 Barium ppm 2 3 3 3	Vanadium	ppm	0	0	0	0
Calcium ppm 15 12 10 9 Magnesium ppm 1 1 0 <1 Zinc ppm 56 77 61 51 Phosphorus ppm 1461 1353 1399 1381 Barium ppm 2 3 3 3						
Magnesium ppm 1 1 0 <1 Zinc ppm 56 77 61 51 Phosphorus ppm 1461 1353 1399 1381 Barium ppm 2 3 3 3	ADD	ITIVES				
Zinc ppm 56 77 61 51 Phosphorus ppm 1461 1353 1399 1381 Barium ppm 2 3 3 3	Calcium	ppm	15	O 12	O 10	9
Zinc ppm 56 77 61 51 Phosphorus ppm 1461 1353 1399 1381 Barium ppm 2 3 3 3	Magnesium	ppm	0 1	0 1	0	0 <1
Phosphorus ppm 1461 1353 1399 1381 Barium ppm 2 3 3 3	-	ppm	56	7 7	O 61	O 51
Barium ppm ② 2 ③ 3 ◎ 3	Phosphorus		1461	O 1353	O 1399	_
	Barium		2		3	3
	Boron					



RICHMOND STEEL RECYCLING

11760 MITCHELL ROAD RICHMOND, BC **CA V6V 1V8**

Contact: Aaron Kaetler AKaetler@richmondsteel.ca

T:

F: (604)324-8617

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

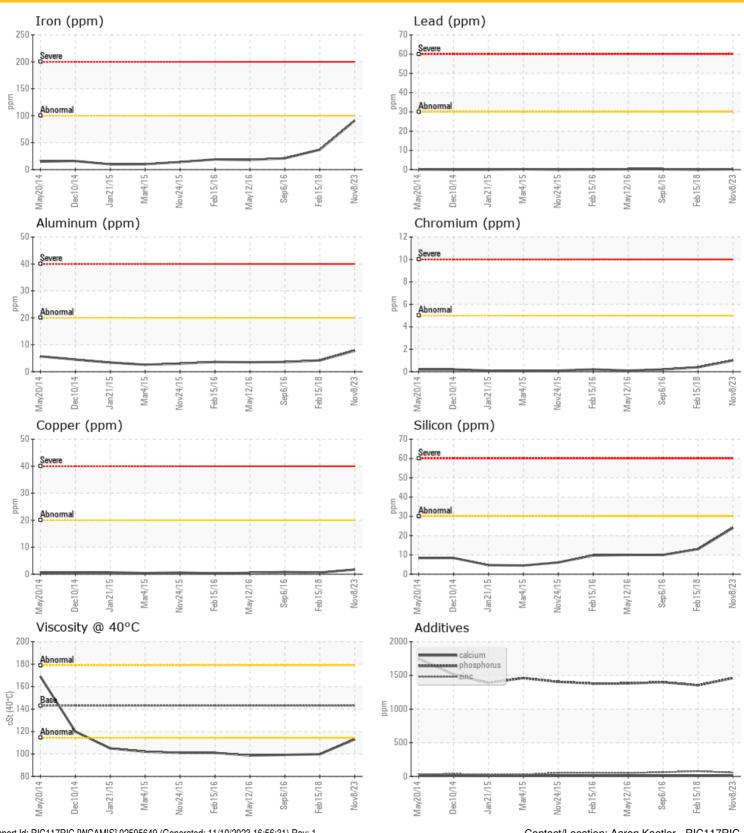
Depot: RIC117RIC **Unique No:** 5672728 Signed: Bill Quesnel Report Date: 10 Nov 2023

CONSTRUCTION EQUIPMENT





GRAPHS



Report Id: RIC117RIC [WCAMIS] 02595649 (Generated: 11/10/2023 16:56:31) Rev: 1

Contact/Location: Aaron Kaetler - RIC117RIC