

GEAR OIL SAE 75W90

LIEBHERR R920 051529-1705 - Swing Drive

Sample No: LH0225027

Oil Type:

SAMPLE INFORMATION

Sample Number	LH0225027	 	
Sample Date	24 Jan 2024	 	
Machine Hours	3129	 	
Oil Hours	0	 	
Oil Changed	Changed	 	
Sample Status	ABNORMAL	 	

OIL CONDITION

Visc @ 40°C

cSt 0 105

Water	%	0.251					
Silicon	ppm	0 5					
Sodium	ppm	01					
Potassium	ppm	01					

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WEA WEA	R METALS	;		
PQ		0	 	
Iron	ppm	0 1197	 	
Copper	ppm	0 210	 	
Lead	ppm	<mark>0</mark> 6	 	
Tin	ppm	○ <1	 	
Aluminum	ppm	<mark>()</mark> <1	 	
Chromium	ppm	08	 	
Molybdenum	ppm	5	 	
Nickel	ppm	○ <1	 	
Titanium	ppm	0	 	
Silver	ppm	<1	 	
Manganese	ppm	08	 	
Vanadium	ppm	0	 	

ø **ADDITIVES** Calcium 0 16 ppm Magnesium 02 ppm Zinc ppm 0 30 Phosphorus 0 1268 ppm Barium ppm 0 🔘 Boron ppm 0238





SHAMROCK EARTHWORKS LTD 351 EVERSYDE WAY SW CALGARY, AB CA T2Y 4R2 Contact: Service Manager

T: F:

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm. Iron and lead ppm levels are abnormal. Bearing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: Unique No: Signed: Report Date:

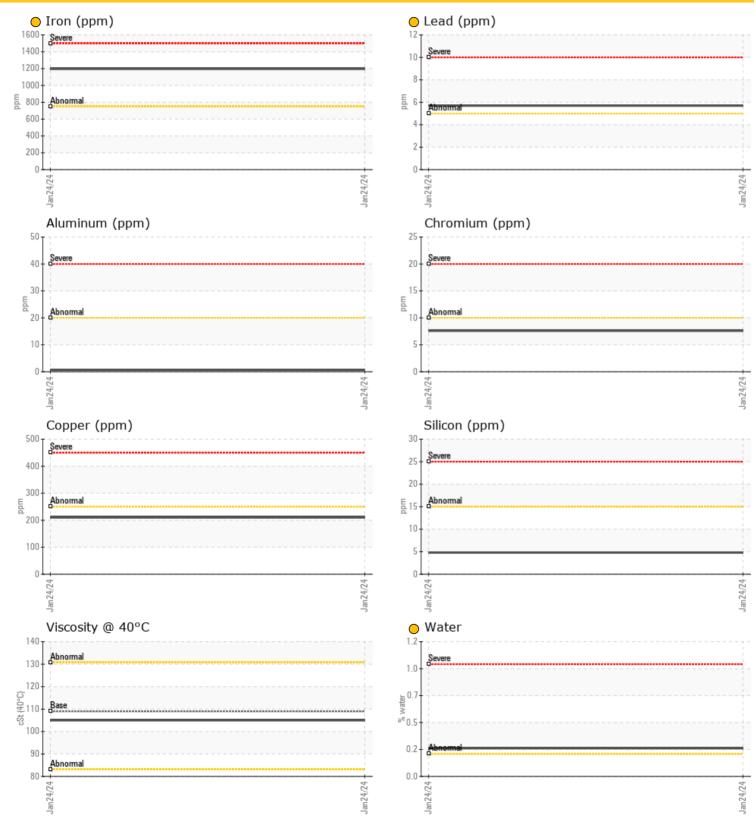
SHA351CAL 5722574 Bill Quesnel 06 Feb 2024





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Report Id: SHA351CAL [WCAMIS] 02613479 (Generated: 02/06/2024 21:06:42) Rev: 1