

# [1460] LOROX 22731 1460-5673-4001 - HG Ni LAROX #1 HYDRAULIC POWER PACK - Hydraulic System

**Sample No:** PC0010182

**Oil Type:** PETRO CANADA HYDREX AW 46

## SAMPLE INFORMATION

Sample Number	PC0010182	PC366682	PC410765	PC384767
Sample Date	30 Jan 2020	05 Apr 2019	12 Nov 2018	10 Apr 2018
Machine Hours	0	0	0	0
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	ABNORMAL	SEVERE	NORMAL	NORMAL

### Vale

Voisey's Bay Mine Site, P.O. Box 7001, Stn. C Happy Valley  
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## OIL CONDITION

Visc @ 40°C	cSt	46.6	46.4	45.9	43.1
Visc @ 100°C	cSt	7.2	21.1	6.9	6.9
Viscosity Index (VI)	Scale	114	457	105	117
Acid Number (AN)	mg KOH/g	0.456	0.456	0.41	0.335

## CONTAMINATION

Water	%	0.012	0.147	---	---
Particles >4µm		22508	317318	2804	2279
Particles >6µm		3674	291741	331	244
Particles >14µm		151	210127	10	13
ISO 4406:1999 (c)		22/19/14	25/25/25	19/16/10	18/15/11
Silicon	ppm	<1	<1	0	<1
Sodium	ppm	0	0	0	<1
Potassium	ppm	<1	0	0	0

## WEAR METALS

Iron	ppm	2	2	<1	1
Copper	ppm	2	4	<1	<1
Lead	ppm	0	1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0

## ADDITIVES

Calcium	ppm	21	23	49	52
Magnesium	ppm	0	<1	<1	<1
Zinc	ppm	411	408	427	438
Phosphorus	ppm	324	322	326	334
Barium	ppm	<1	0	0	0
Boron	ppm	<1	0	0	0

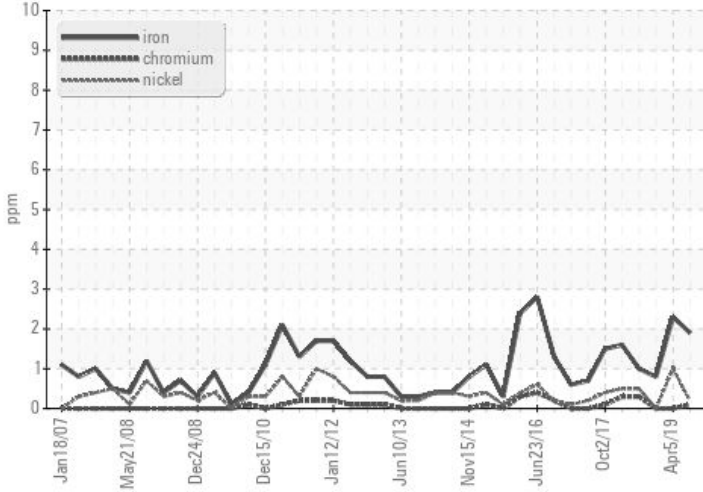
### Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. Particles >6µm are abnormally high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

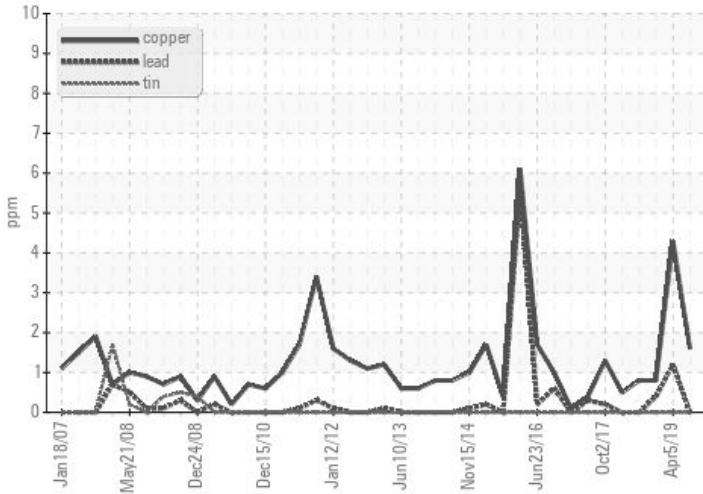
**Depot:** INCVOS  
**Unique No:** 5004219  
**Signed:** Wes Davis  
**Report Date:** 11 Feb 2020

# GRAPHS

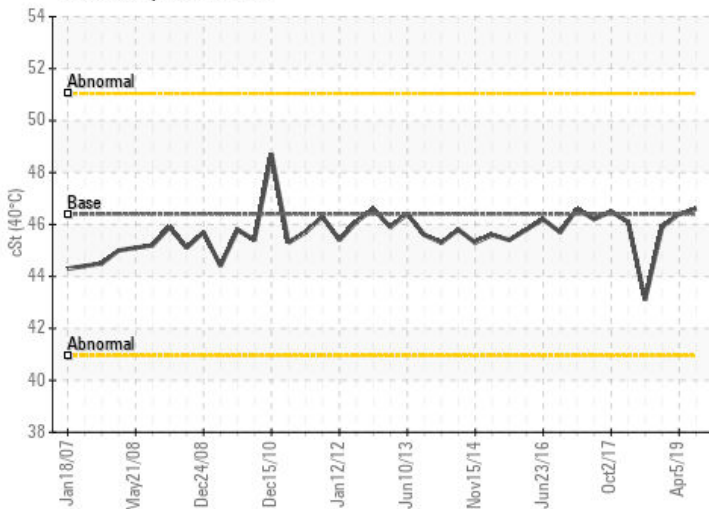
### Ferrous Alloys



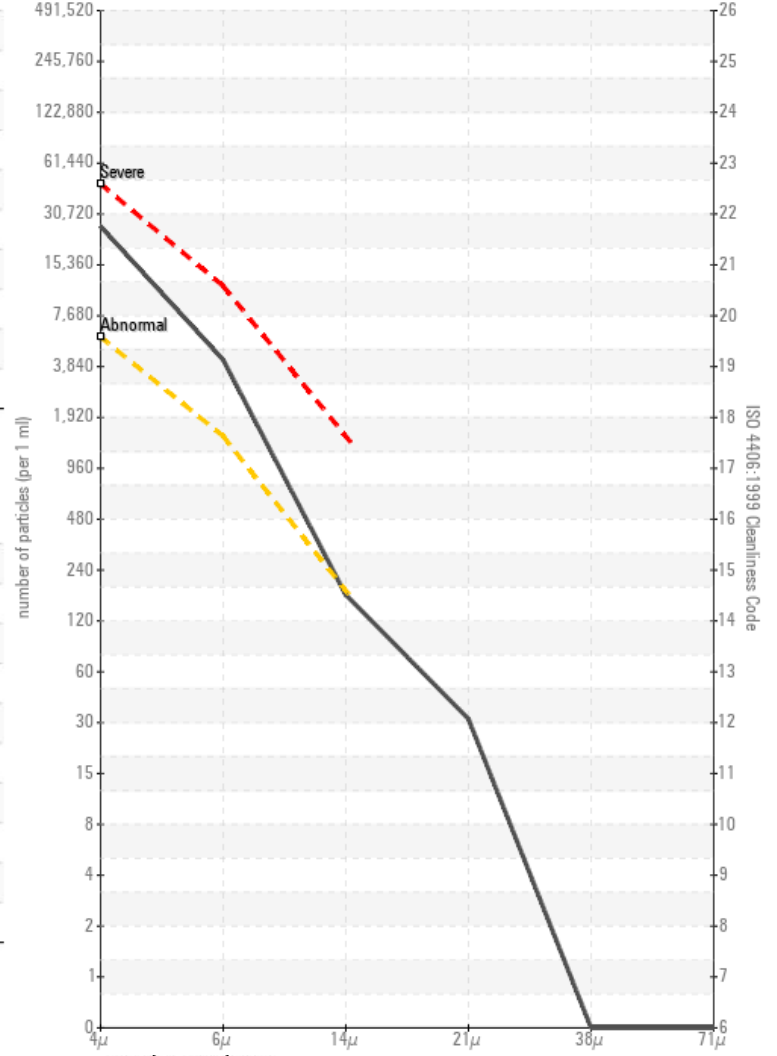
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

