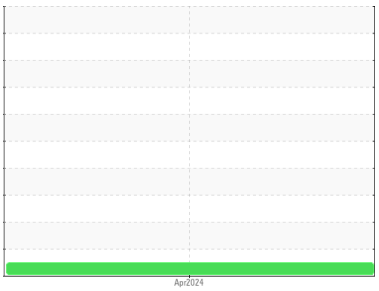
GREASE ANALYSIS

Sample Rating Trend



NORMAL

Area
[4100882474]
Machine Id
SOUTH MINE SRS 2000 GREASE
Component
Grease
Fluid
SHELL SRS 2000 EXTREME GREASE (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PP**	---	---
Sample Date		Client Info		**11 Apr 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Grease Age	hrs	Client Info		**0**	---	---
Grease Serviced		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>200	**0**	---	---
Iron	ppm	ASTM D5185(m)	>250	**2**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>5	**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Lead	ppm	ASTM D5185(m)	>25	**0**	---	---
Copper	ppm	ASTM D5185(m)	>75	**0**	---	---
Tin	ppm	ASTM D5185(m)	>5	**0**	---	---
Silver	ppm	ASTM D5185(m)	>5	**0**	---	---

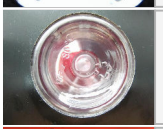
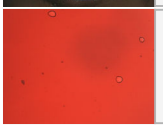
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	165	**163**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**4**	---	---
Manganese	ppm	ASTM D5185(m)	0	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Phosphorus	ppm	ASTM D5185(m)	0	**0**	---	---
Zinc	ppm	ASTM D5185(m)	0	**2**	---	---
Antimony	ppm	ASTM D5185(m)	0	**0**	---	---

THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	0	**2**	---	---
Barium	ppm	ASTM D5185(m)	0	**<1**	---	---
Calcium	ppm	ASTM D5185(m)	4600	**4624**	---	---
Sodium	ppm	ASTM D5185(m)	0	**1**	---	---
Lithium	ppm	ASTM D5185(m)	0	**<1**	---	---
Sulfur	ppm	ASTM D5185(m)	700	**701**	---	---

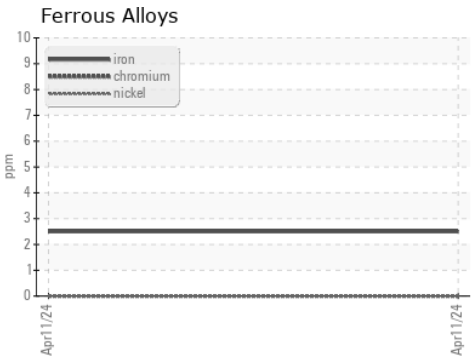
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	**<1**	---	---
Potassium	ppm	ASTM D5185(m)		**3**	---	---

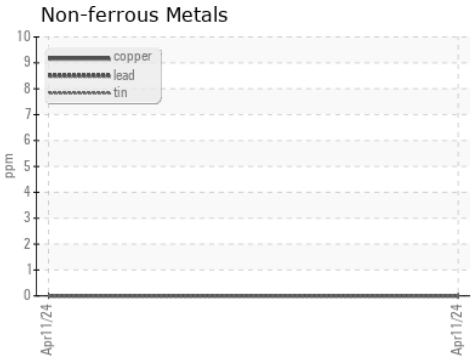
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		Visual*		**Burgundy**	---	---
Texture		In-house*		**Buttery**	---	---
NLGI Consistency	NLGI Scale	SKF Method*		**3**	---	---

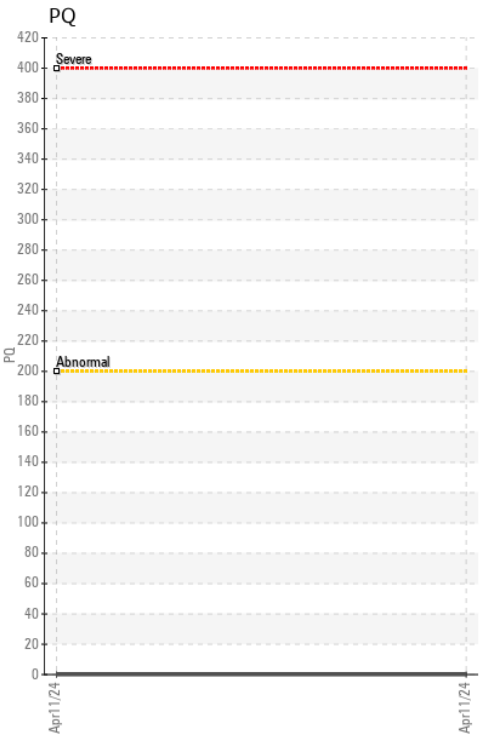
GREASE ANALYSIS

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS







Grease Appearance (Magn: 10X)

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02628627
Unique Number : 5761759
Test Package : GRS 1 (Additional Tests: BottomAnalysis)

Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 2024 - Bill Quesnel

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

Vale - Copper Cliff Smelter
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