

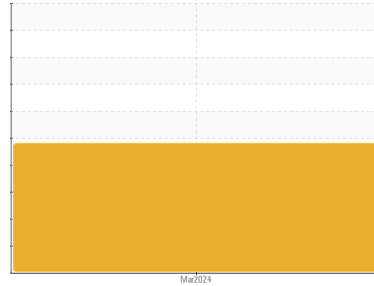
PROBLEM SUMMARY

Sample Rating Trend

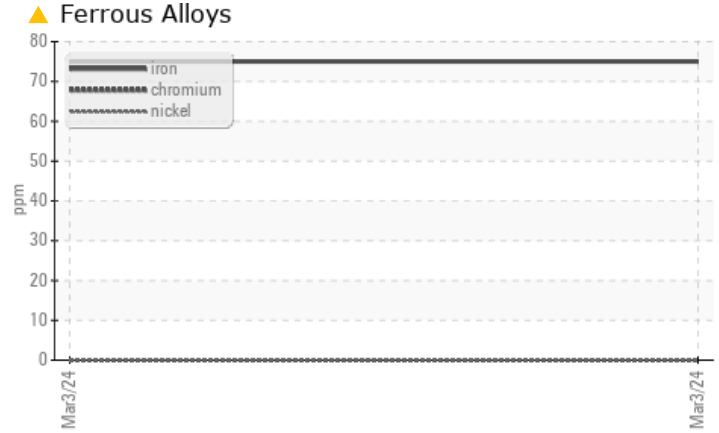
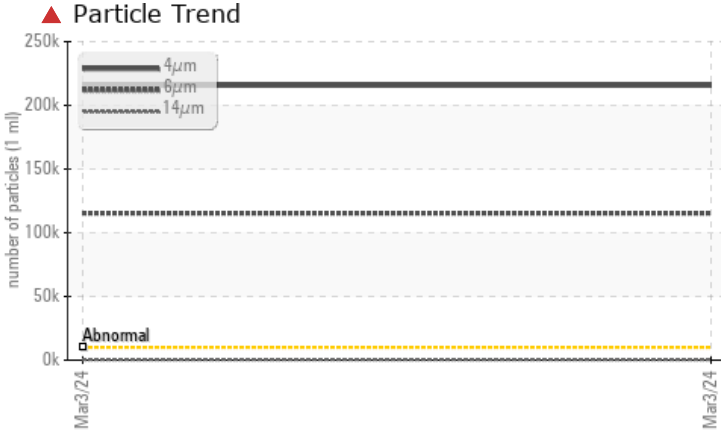
ISO



Machine Id
1901-5430-9404DS
Component
Compressor
Fluid
{not provided} (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Iron	ppm	ASTM D5185(m)	>50	▲ 75	---
Particles >4µm		ASTM D7647	>10000	▲ 215537	---
Particles >6µm		ASTM D7647	>2500	▲ 115300	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 25/24/16	---

Customer Id: INCVOS
Sample No.: PC384077
Lab Number: 02620861
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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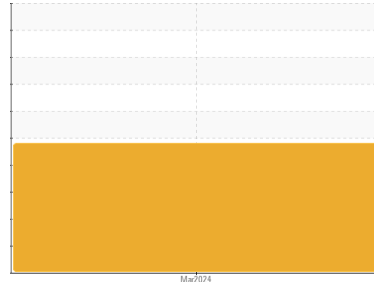
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



Machine Id
1901-5430-9404DS
Component
Compressor
Fluid
{not provided} (--- GAL)



DIAGNOSIS

▲ Recommendation
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

▲ Wear
Iron ppm levels are abnormal.

▲ Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC384077	---	---
Sample Date	Client Info	03 Mar 2024	---	---
Machine Age	days	0	---	---
Oil Age	days	60	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	33	---	---
Iron	ppm	ASTM D5185(m) >50	▲ 75	---
Chromium	ppm	ASTM D5185(m) >10	0	---
Nickel	ppm	ASTM D5185(m)	0	---
Titanium	ppm	ASTM D5185(m)	0	---
Silver	ppm	ASTM D5185(m)	0	---
Aluminum	ppm	ASTM D5185(m) >25	19	---
Lead	ppm	ASTM D5185(m) >25	4	---
Copper	ppm	ASTM D5185(m) >50	8	---
Tin	ppm	ASTM D5185(m) >15	0	---
Antimony	ppm	ASTM D5185(m)	0	---
Vanadium	ppm	ASTM D5185(m)	0	---
Beryllium	ppm	ASTM D5185(m)	0	---
Cadmium	ppm	ASTM D5185(m)	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	---
Barium	ppm	ASTM D5185(m)	0	---
Molybdenum	ppm	ASTM D5185(m)	0	---
Manganese	ppm	ASTM D5185(m)	<1	---
Magnesium	ppm	ASTM D5185(m)	<1	---
Calcium	ppm	ASTM D5185(m)	11	---
Phosphorus	ppm	ASTM D5185(m)	84	---
Zinc	ppm	ASTM D5185(m)	1	---
Sulfur	ppm	ASTM D5185(m)	1898	---
Lithium	ppm	ASTM D5185(m)	<1	---

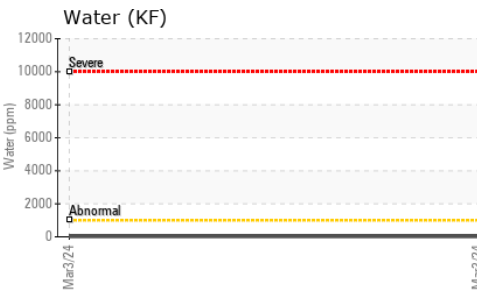
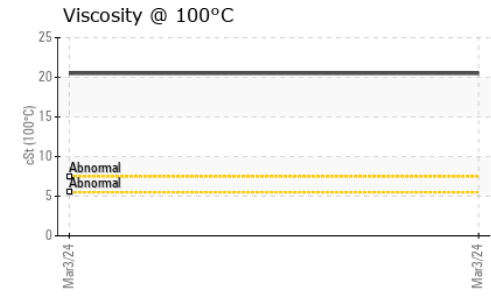
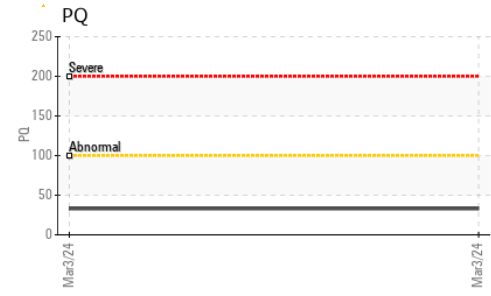
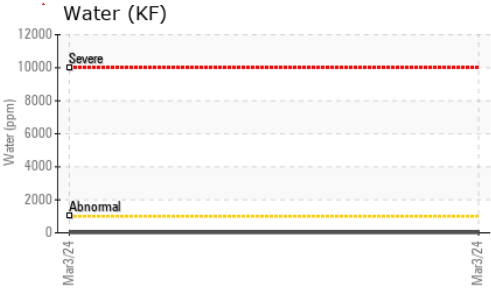
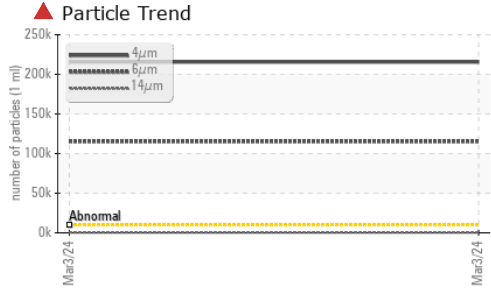
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	6	---
Sodium	ppm	ASTM D5185(m)	<1	---
Potassium	ppm	ASTM D5185(m) >20	1	---
Water	%	ASTM D6304* >0.1	0.002	---
ppm Water	ppm	ASTM D6304* >1000	20	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 215537	---
Particles >6µm	ASTM D7647	>2500	▲ 115300	---
Particles >14µm	ASTM D7647	>320	● 405	---
Particles >21µm	ASTM D7647	>80	29	---
Particles >38µm	ASTM D7647	>20	3	---
Particles >71µm	ASTM D7647	>4	1	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 25/24/16	---

OIL ANALYSIS REPORT



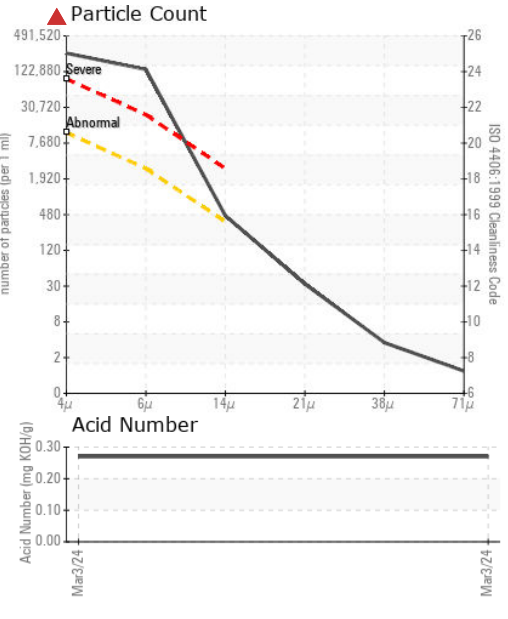
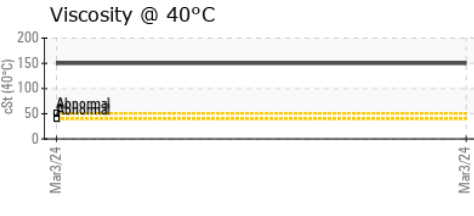
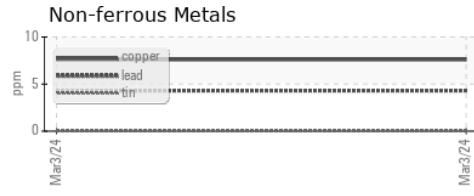
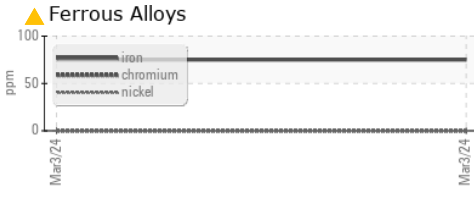
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.27	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		150	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		20.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		159	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC384077
Lab Number : 02620861
Unique Number : 5745980
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, TAN Man, VI)

Vale - Voisey's Bay
 Voisey's Bay Mine Site, P.O. Box 7001, Str. C Happy Valley
 Goose Bay, NL
 CA A0P 1C0
 Contact: Robert Feltham
 robert.feltham@vale.com

*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.*

T:
F: x