

PROBLEM SUMMARY

Sample Rating Trend



ISO



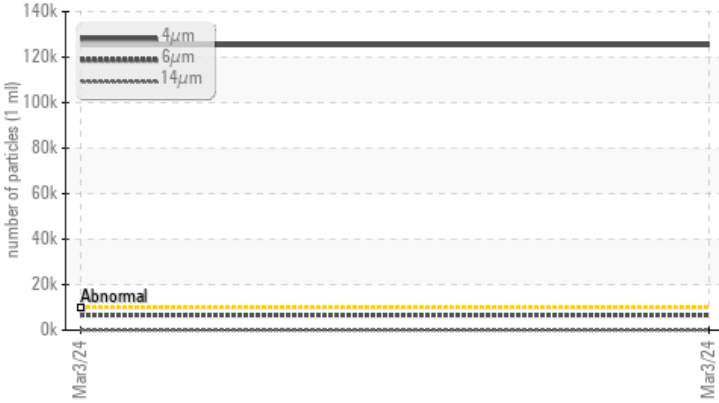
Machine Id
1901-5430-9408-DS

Component
Compressor

Fluid
{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



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	---	---
Particles >4µm	ASTM D7647	>10000	▲ 125366	---	---
Particles >6µm	ASTM D7647	>2500	▲ 6626	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 24/20/14	---	---

Customer Id: INCVOS
Sample No.: PC384082
Lab Number: 02620862
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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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
1901-5430-9408-DS

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
All component wear rates are normal.

▲ 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 still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC384082	---	---
Sample Date	Client Info	03 Mar 2024	---	---
Machine Age	days	60	---	---
Oil Age	days	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	---	---
Iron	ppm	ASTM D5185(m) >50	7	---
Chromium	ppm	ASTM D5185(m) >10	0	---
Nickel	ppm	ASTM D5185(m)	<1	---
Titanium	ppm	ASTM D5185(m)	0	---
Silver	ppm	ASTM D5185(m)	0	---
Aluminum	ppm	ASTM D5185(m) >25	6	---
Lead	ppm	ASTM D5185(m) >25	2	---
Copper	ppm	ASTM D5185(m) >50	2	---
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)	0	---
Barium	ppm	ASTM D5185(m)	0	---
Molybdenum	ppm	ASTM D5185(m)	0	---
Manganese	ppm	ASTM D5185(m)	0	---
Magnesium	ppm	ASTM D5185(m)	<1	---
Calcium	ppm	ASTM D5185(m)	<1	---
Phosphorus	ppm	ASTM D5185(m)	95	---
Zinc	ppm	ASTM D5185(m)	1	---
Sulfur	ppm	ASTM D5185(m)	1932	---
Lithium	ppm	ASTM D5185(m)	<1	---

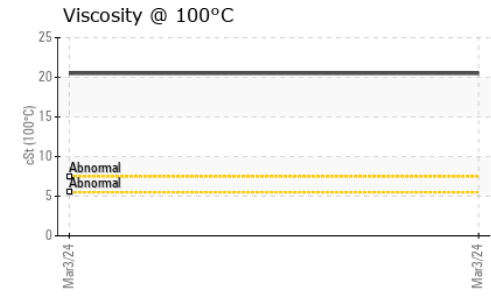
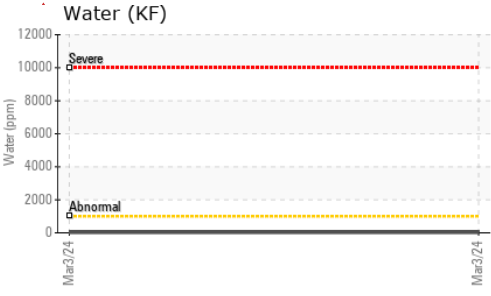
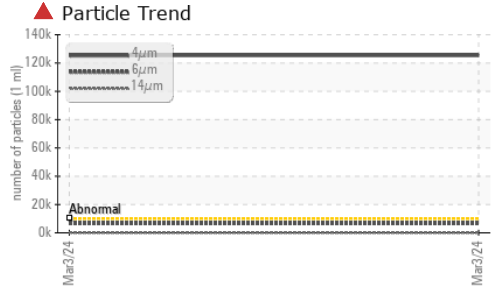
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	2	---
Sodium	ppm	ASTM D5185(m)	0	---
Potassium	ppm	ASTM D5185(m) >20	<1	---
Water	%	ASTM D6304* >0.1	0.003	---
ppm Water	ppm	ASTM D6304* >1000	27	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 125366	---
Particles >6µm	ASTM D7647	>2500	▲ 6626	---
Particles >14µm	ASTM D7647	>320	96	---
Particles >21µm	ASTM D7647	>80	17	---
Particles >38µm	ASTM D7647	>20	1	---
Particles >71µm	ASTM D7647	>4	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 24/20/14	---

OIL ANALYSIS REPORT



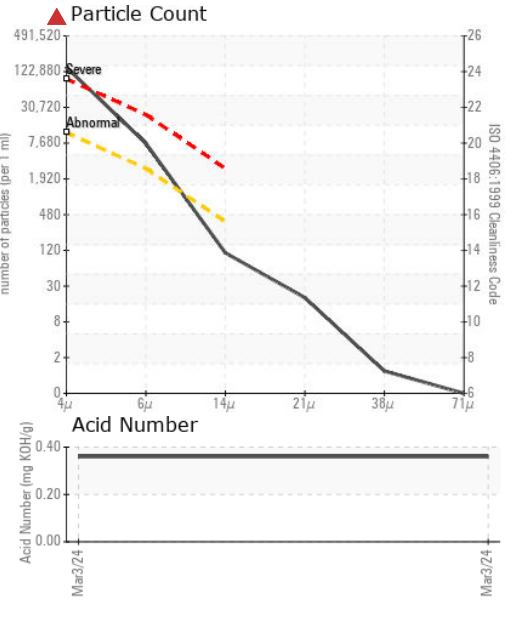
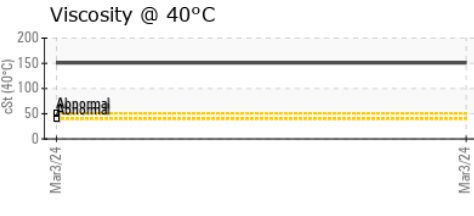
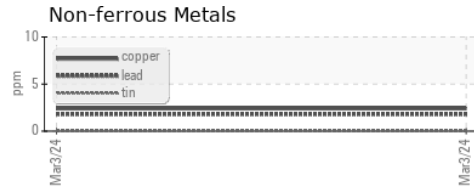
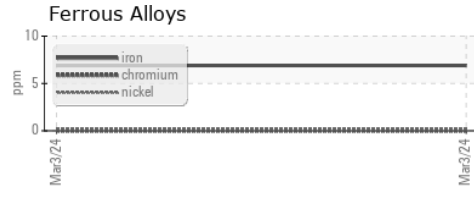
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.36	---	---

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)		151	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		20.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		158	---	---

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. : PC384082
Lab Number : 02620862
Unique Number : 5745981
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, Stn. 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