

# **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

#### Area **PROCESS CHEESE [98778593]** Machine Id **4635-CMX** Component

Pump Fluid R&O OIL ISO 68 (--- GAL)

# DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

# 🔺 Wear

The iron level is abnormal.

# Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096803	PCA0096854	PCA0081542
Sample Date		Client Info		29 Jan 2024	11 Nov 2023	15 Aug 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		1	1	1
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<u> </u>	<b>1</b> 09	84
Chromium	ppm	ASTM D5185m	>5	2	3	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	0	2	<b>1</b> 1
Lead	ppm	ASTM D5185m	>12	0	0	0
Copper	ppm	ASTM D5185m	>30	0	<1	<1
Tin	ppm	ASTM D5185m	>9	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	5	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	0	0	0
Calcium	ppm	ASTM D5185m	5	1	2	14
Phosphorus	ppm	ASTM D5185m	100	<b>4</b> 79	66	38
Zinc	ppm	ASTM D5185m	25	<b>114</b>	80	59
Sulfur	ppm	ASTM D5185m	1500	<b>1119</b>	0	44
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	3	5	4
Sodium	ppm	ASTM D5185m		6	6	2
Potassium	ppm	ASTM D5185m	>20	3	5	<1
FLUID CLEANL	INESS.	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<u> </u>		
Particles >6µm		ASTM D7647	>320	<u> </u>		
Particles >14µm		ASTM D7647	>80	A 955		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>2</b> 5/23/17		
Oil Cleanliness	)ATION	ISO 4406 (c) method	>17/15/13 limit/base	25/23/17  current	 history1	 history2

Contact/Location: Service Manager - KRASPRMO



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	A MODER
Debris	scalar	*Visual	NONE	NONE	A MODER	A HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	A HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	▲ 86.3	71.4	74.2
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color				•		
Bottom						



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - KRASPRMO