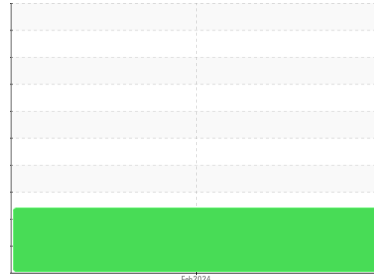


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
KEMP QUARRIES / RIVER VALLEY BACKBONE
 Machine Id
Scr055 bearing oil
 Component
Non-Drive End Bearing Lube
 Fluid
PETRO CANADA TURBOFLO R&O 150 (1 GAL)

DIAGNOSIS

- Recommendation**
 The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 Gear wear is indicated.
- Contamination**
 Elemental level of silicon (Si) above normal indicating ingress of seal material.
- Fluid Condition**
 The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0069956	---	---
Sample Date	Client Info		12 Feb 2024	---	---
Machine Age	hrs Client Info		6550	---	---
Oil Age	hrs Client Info		300	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	▲ 103	---	---
Chromium	ppm ASTM D5185m	>2	<1	---	---
Nickel	ppm ASTM D5185m	>2	0	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m		0	---	---
Aluminum	ppm ASTM D5185m	>2	2	---	---
Lead	ppm ASTM D5185m	>25	0	---	---
Copper	ppm ASTM D5185m	>7	2	---	---
Tin	ppm ASTM D5185m	>10	0	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		10	---	---
Barium	ppm ASTM D5185m		0	---	---
Molybdenum	ppm ASTM D5185m		0	---	---
Manganese	ppm ASTM D5185m		<1	---	---
Magnesium	ppm ASTM D5185m		5	---	---
Calcium	ppm ASTM D5185m	0	32	---	---
Phosphorus	ppm ASTM D5185m	4	184	---	---
Zinc	ppm ASTM D5185m	0	49	---	---
Sulfur	ppm ASTM D5185m		5826	---	---

CONTAMINANTS

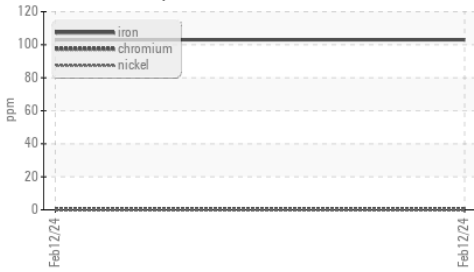
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>20	▲ 45	---	---
Sodium	ppm ASTM D5185m		0	---	---
Potassium	ppm ASTM D5185m	>20	3	---	---

VISUAL

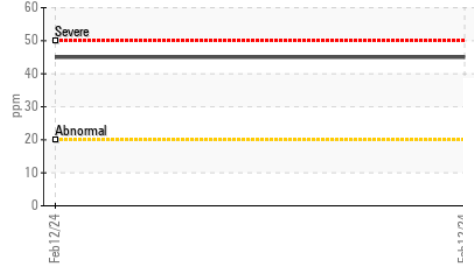
	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	---	---
Yellow Metal	scalar *Visual	NONE	NONE	---	---
Precipitate	scalar *Visual	NONE	NONE	---	---
Silt	scalar *Visual	NONE	NONE	---	---
Debris	scalar *Visual	NONE	NONE	---	---
Sand/Dirt	scalar *Visual	NONE	NONE	---	---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

OIL ANALYSIS REPORT

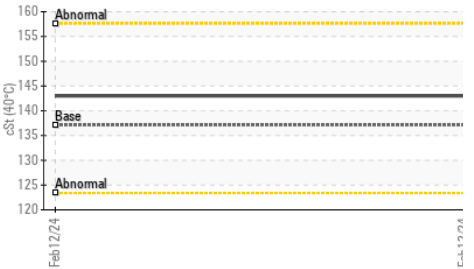
▲ Ferrous Alloys



▲ Silicon (ppm)



Viscosity @ 40°C



FLUID PROPERTIES

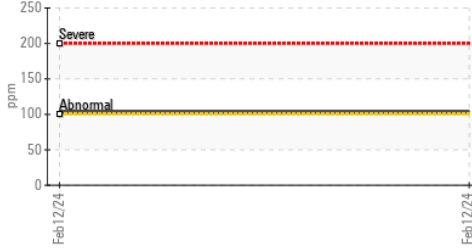
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	137.1	143	---

SAMPLE IMAGES

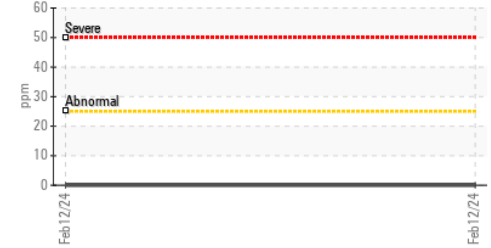
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS

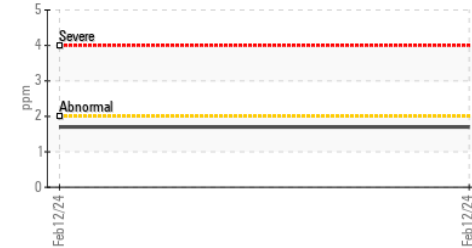
▲ Iron (ppm)



▲ Lead (ppm)



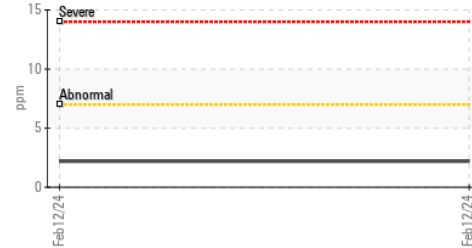
▲ Aluminum (ppm)



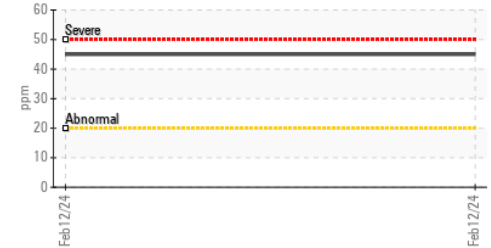
▲ Chromium (ppm)



▲ Copper (ppm)



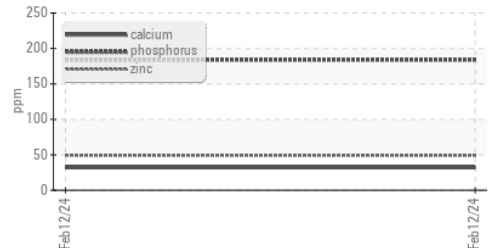
▲ Silicon (ppm)



Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0069956
Lab Number : **06092536**
Unique Number : 10885389
Test Package : MOB 1

Received : 16 Feb 2024
Tested : 19 Feb 2024
Diagnosed : 20 Feb 2024 - Sean Felton

Kemp Quarries - River Valley - Backbone
 5600 S Hwy 253
 Huntington, AR
 US 72940

Contact: backbone@rivervalleyquarries.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

T:
F: