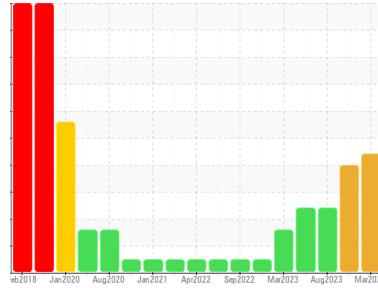


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
KEMP QUARRIES / PRYOR STONE [69066]
 Machine Id
WL116
 Component
Gear Drive
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: Pm3 performed. All oil samples taken. Engine oil, and all filters changed.)

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0086597	PCA0084410	PCA0084249
Sample Date	Client Info	05 Mar 2024	21 Dec 2023	12 Aug 2023
Machine Age	hrs	6476	6316	6032
Oil Age	hrs	6192	284	0
Oil Changed	Client Info	Oil Added	Oil Added	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	207	191	178
Chromium	ppm	ASTM D5185m >5	<1	<1	<1
Nickel	ppm	ASTM D5185m >8	<1	<1	0
Titanium	ppm	ASTM D5185m	3	2	<1
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >20	40	32	13
Lead	ppm	ASTM D5185m >20	<1	<1	0
Copper	ppm	ASTM D5185m >500	1	<1	0
Tin	ppm	ASTM D5185m >75	<1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 2	52	2	2
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	10	0	0
Manganese	ppm	ASTM D5185m 0	2	2	2
Magnesium	ppm	ASTM D5185m 9	32	24	16
Calcium	ppm	ASTM D5185m 3114	3332	3112	3720
Phosphorus	ppm	ASTM D5185m 1099	1084	900	1093
Zinc	ppm	ASTM D5185m 1245	1290	1116	1351
Sulfur	ppm	ASTM D5185m 7086	4422	3984	5065

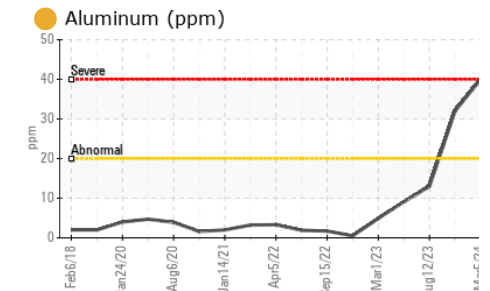
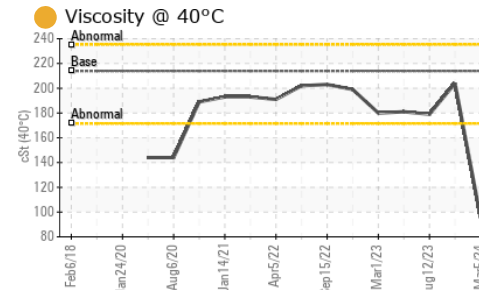
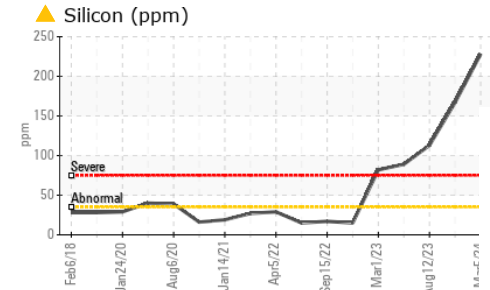
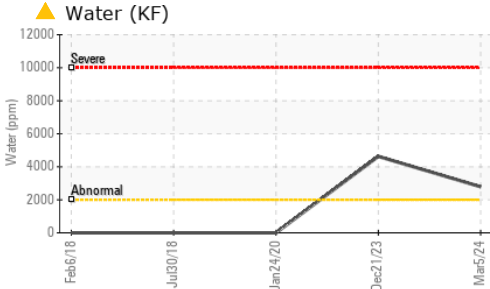
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >35	228	167	113
Sodium	ppm	ASTM D5185m	6	4	4
Potassium	ppm	ASTM D5185m >20	19	14	3
Water	%	ASTM D6304 >0.2	0.279	0.463	---
ppm Water	ppm	ASTM D6304 >2000	2790	4630	---

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	MODER	MODER	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	MODER
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	0.2%	0.2%	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

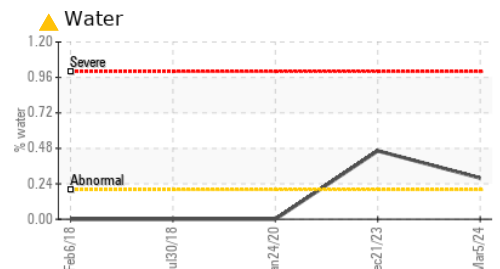
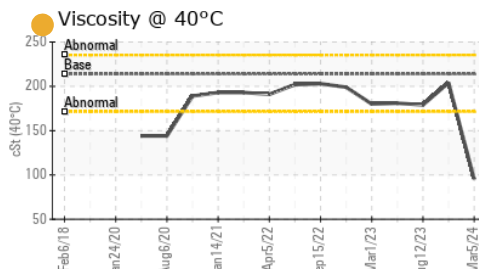
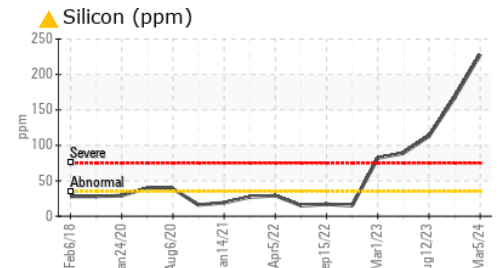
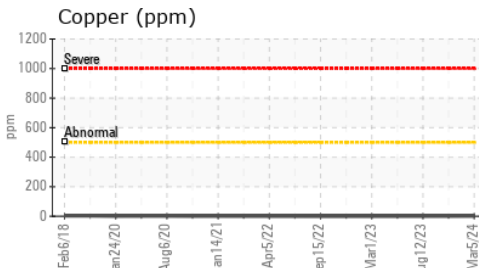
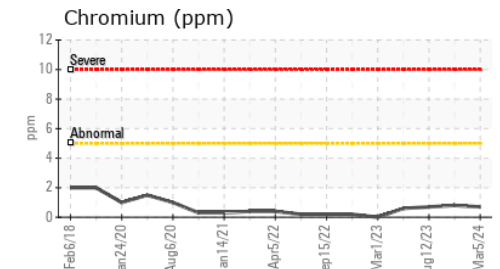
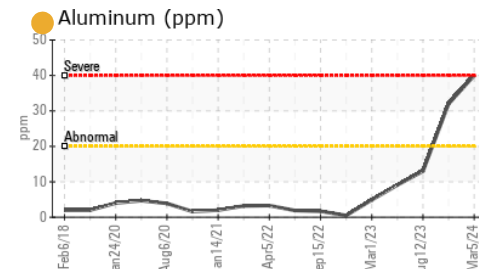
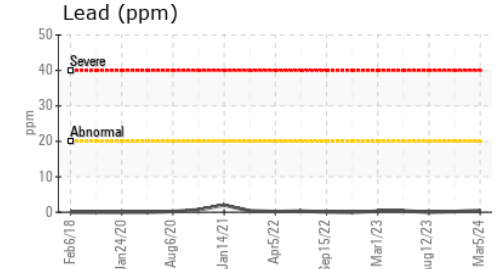
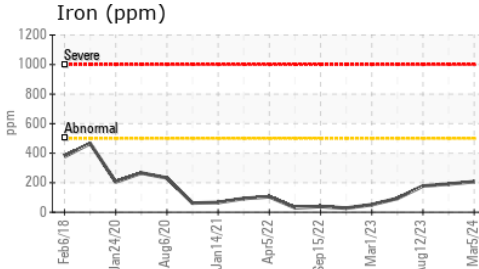
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	● 95.5	204	179

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086597
Lab Number : 06128236
Unique Number : 10942387
Test Package : MOB 1 (Additional Tests: KF)

Kemp Quarries - Pryor Stone - Pryor
 1050 E 520 Rd
 Pryor, OK
 US 74361
 Contact:
 pryor@pryorstone.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)