

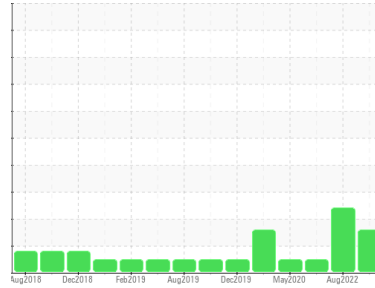
OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Area
KEMP QUARRIES / KEMP STONE - FAIRLAND
Machine Id
WL119
Component
Gear Drive
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- 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. (Customer Sample Comment: PM-4 changed fluid)

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

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	PCA0086456	PCA0062001	PCA0025475
Sample Date	Client Info	09 Aug 2023	16 Aug 2022	09 Nov 2020
Machine Age	hrs	6527	5955	4876
Oil Age	hrs	6527	5955	0
Oil Changed	Client Info	Changed	Changed	Oil Added
Sample Status		ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >500	94	226	91
Chromium ppm	ASTM D5185m >5	<1	1	<1
Nickel ppm	ASTM D5185m >8	0	0	0
Titanium ppm	ASTM D5185m	<1	<1	<1
Silver ppm	ASTM D5185m	0	0	1
Aluminum ppm	ASTM D5185m >20	6	▲ 12	0
Lead ppm	ASTM D5185m >20	0	0	<1
Copper ppm	ASTM D5185m >500	0	1	<1
Tin ppm	ASTM D5185m >75	0	<1	<1
Antimony ppm	ASTM D5185m >5	---	---	0
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 2	2	5	6
Barium ppm	ASTM D5185m 0	0	0	0
Molybdenum ppm	ASTM D5185m 0	2	3	3
Manganese ppm	ASTM D5185m 0	1	2	2
Magnesium ppm	ASTM D5185m 9	20	46	47
Calcium ppm	ASTM D5185m 3114	3307	2994	2925
Phosphorus ppm	ASTM D5185m 1099	1068	1024	1018
Zinc ppm	ASTM D5185m 1245	1262	1245	1161
Sulfur ppm	ASTM D5185m 7086	6741	10640	9312

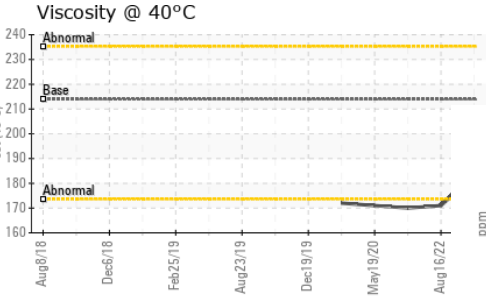
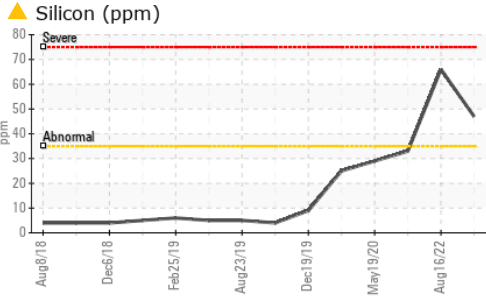
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >35	▲ 47	▲ 66	33
Sodium ppm	ASTM D5185m	3	1	0
Potassium ppm	ASTM D5185m >20	2	7	4

VISUAL

method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	MODER	MODER	MODER
Yellow Metal scalar	*Visual NONE	NONE	NONE	NONE
Precipitate scalar	*Visual NONE	NONE	NONE	NONE
Silt scalar	*Visual NONE	NONE	NONE	NONE
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	NEG	NEG	NEG
Free Water scalar	*Visual	NEG	NEG	NEG

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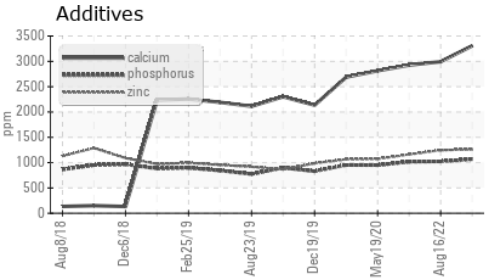
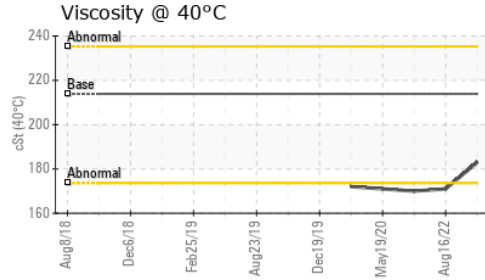
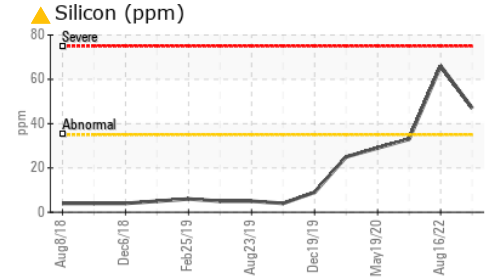
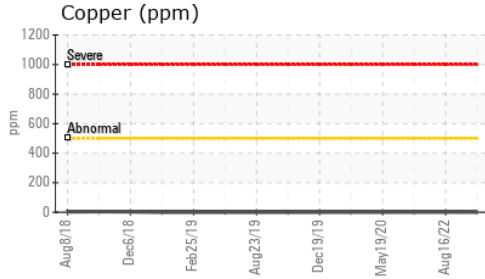
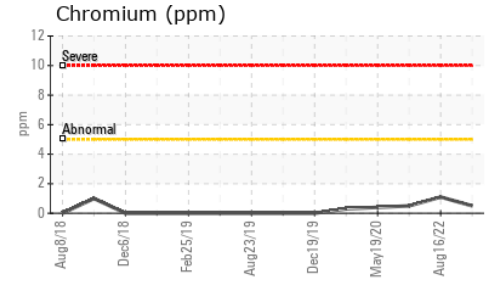
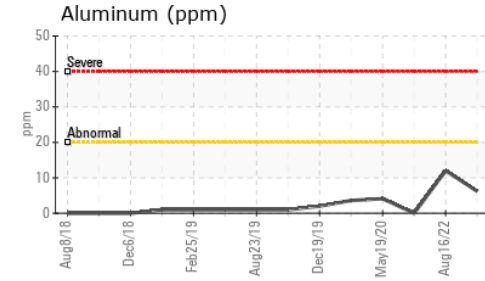
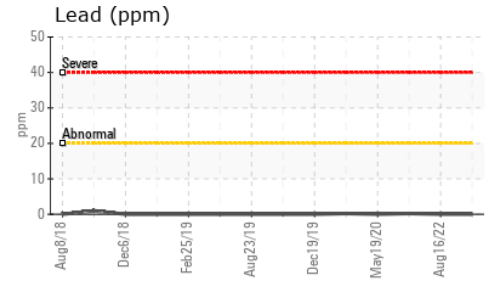
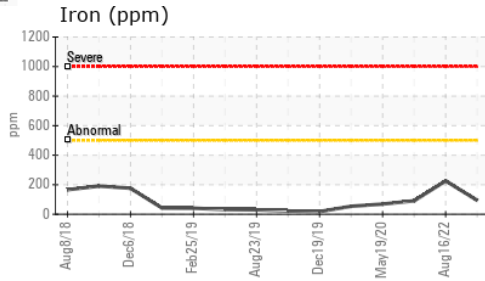


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	183	171	170

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086456
Lab Number : 05936430
Unique Number : 10621701
Test Package : MOB 1

Kemp Quarries - Kemp Stone - Fairland
 18350 S 590 Rd
 Fairland, OK
 US 74343

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)

Contact: fairland@kempstone.com

T:

F: