



OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

ATTENTION  
ABNORMAL  
NORMAL

Area  
**KEMP QUARRIES / PRYOR STONE [67632]**

Machine Id  
**WL130**

Component  
**Gear Drive**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Pm1 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0108527	PCA0086365	PCA0034293
Sample Date		Client Info		11 Apr 2024	15 Jun 2023	23 Nov 2021
Machine Age	hrs	Client Info		25095	4087	25095
Oil Age	hrs	Client Info		21008	4087	3395
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	68	152	125
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>8	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	20	11
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>500	0	<1	<1
Tin	ppm	ASTM D5185m	>75	<1	2	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

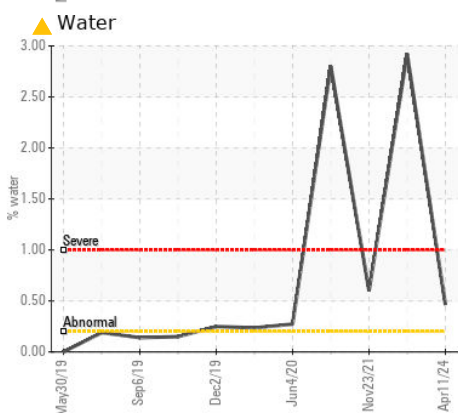
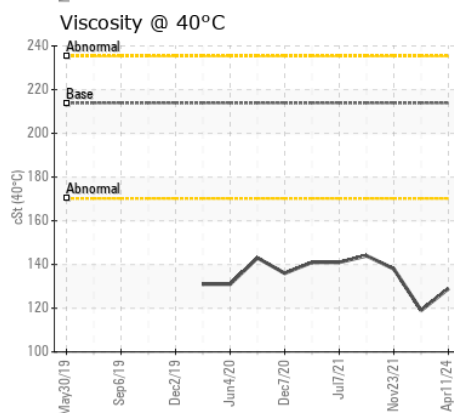
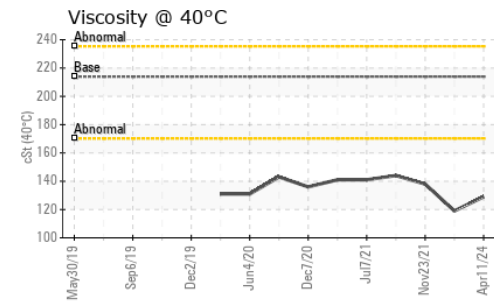
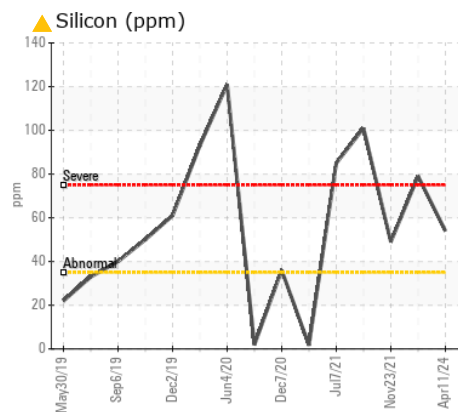
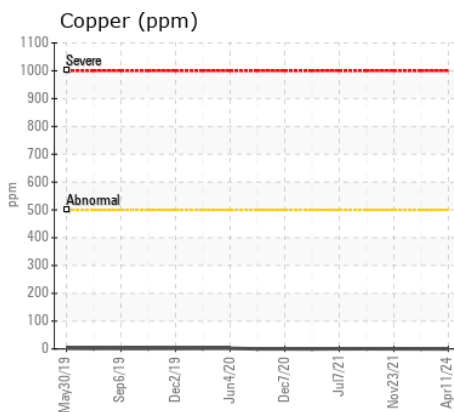
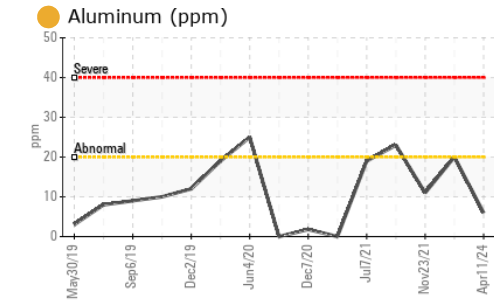
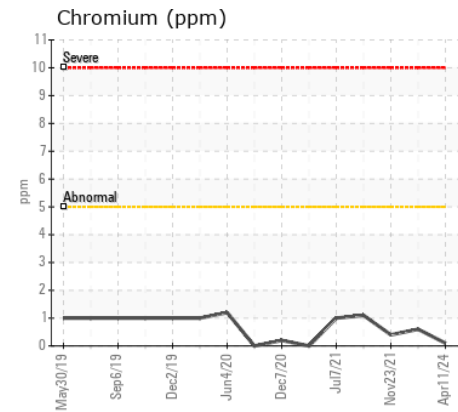
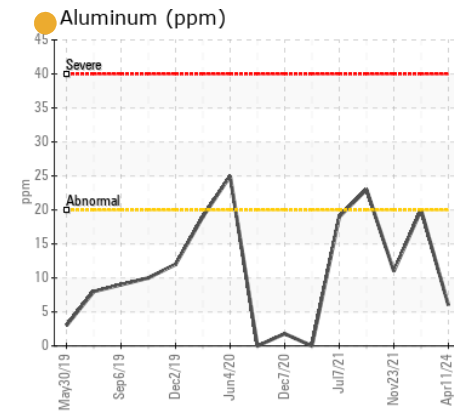
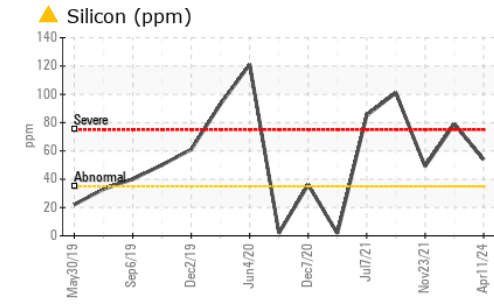
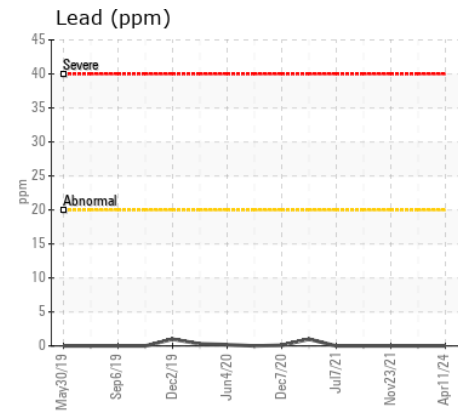
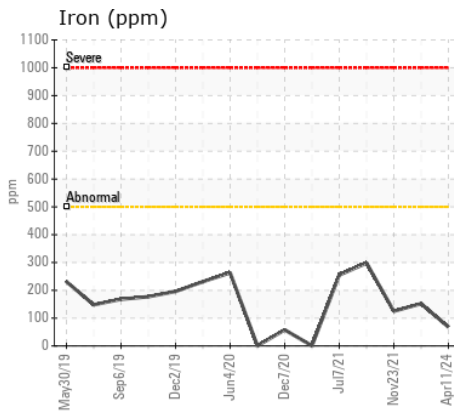
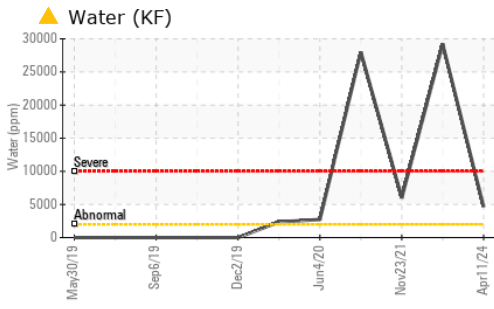
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>35	54	79	49
Potassium	ppm	ASTM D5185m	>20	2	11	2
Water	%	ASTM D6304	>0.2	0.464	2.92	0.600
ppm Water	ppm	ASTM D6304	>2000	4640	29200	6000
Silt	scalar	*Visual	NONE	MODER	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m	2	41	114	214
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	1	2	2
Magnesium	ppm	ASTM D5185m	9	25	18	14
Calcium	ppm	ASTM D5185m	3114	1899	349	323
Phosphorus	ppm	ASTM D5185m	1099	838	837	1043
Zinc	ppm	ASTM D5185m	1245	857	183	68
Sulfur	ppm	ASTM D5185m	7086	6062	20478	22880
Visc @ 40°C	cSt	ASTM D445	213.9	129	119	138



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108527  
**Lab Number** : 06177935  
**Unique Number** : 11029261  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Kemp Quarries - Pryor Stone - Pryor**  
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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)