WEAR CONTAMINATION FLUID CONDITION

ATTENTION SEVERE NORMAL

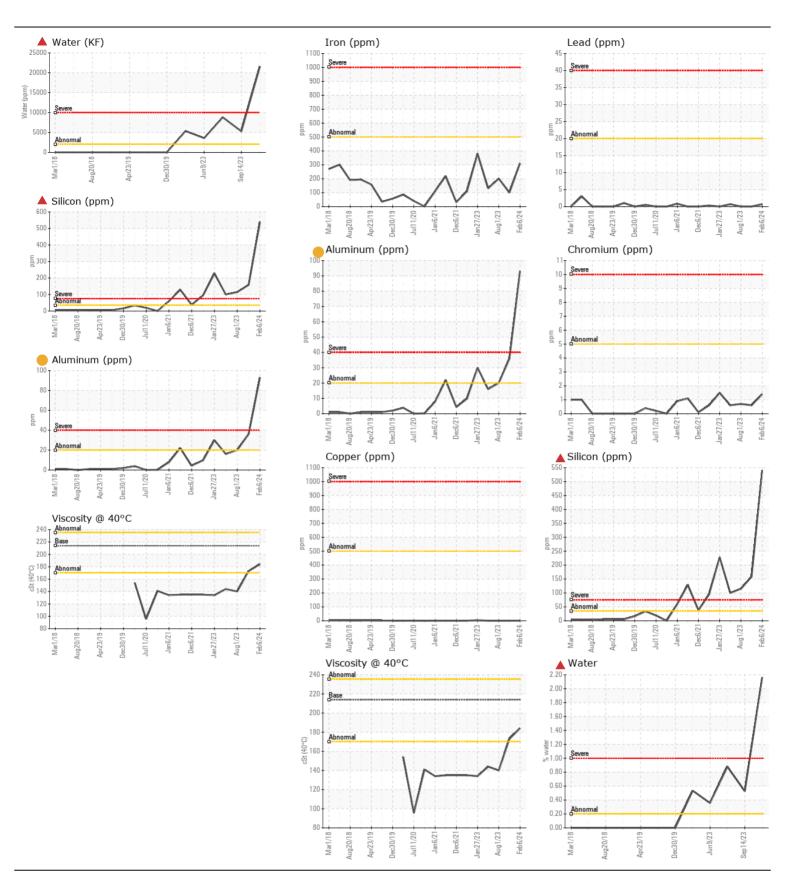
KEMP QUARRIES / BCS - GRAVETTE [68277]

WL117

Gear Drive

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

PETRO CANADA PRODURO 10-4 SAE 50 (C	3AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Pm3)	Sample Number		Client Info		PCA0069792	PCA0086536	PCA0086418
	Sample Date		Client Info		06 Feb 2024	14 Sep 2023	01 Aug 2023
	Machine Age	hrs	Client Info		20058	5691	5552
	Oil Age	hrs	Client Info		14367	5691	5552
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
WEAD			AOTM DE405			400	
WEAR	Iron	ppm	ASTM D5185m		311	100	201
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m	>8	<1	<1	<1
	Titanium	ppm	ASTM D5185m		6	2	1
	Silver	ppm	ASTM D5185m	00	<1	0	0
	Aluminum	ppm	ASTM D5185m		93	3 6	_ 20
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	<1	0
	Tin	ppm	ASTM D5185m	>75	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	▲ 540	1 58	1 15
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	42	18	9
	Water	%	ASTM D6304	>0.2	2.16	<u></u>	△ 0.880
	ppm Water	ppm	ASTM D6304	>2000	21600	<u></u> 5270	8800
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	MILKY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	△ 0.2%
FLUID CONDITION	Codium		ASTM D5185m		•	.4	4
I LOID CONDITION	Sodium Boron	ppm	ASTM D5185m	2	0 6	<1 32	194
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m			0	0
		ppm			<1 .4		
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		<1 o	1 2	3
	Magnesium	ppm	ASTM D5185m		8		
	Calcium	ppm			72 4042	24	16
		ppm	ASTM D5185m		4043	2836	386
	Phosphorus	ppm	ASTM D5185m		779	895	960
	Zinc	ppm	ASTM D5185m		1022	999	53
	Sulfur	ppm	ASTM D5185m		4083	6341	21478
	Visc @ 40°C	cSt	ASTM D445	213.9	184	173	140





Certificate L2367

Laboratory Sample No. **Lab Number** Unique Number : 10899435

: PCA0069792 : 06101205

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Tested Diagnosed Test Package: MOB 1 (Additional Tests: KF)

Received : 26 Feb 2024 : 28 Feb 2024

: 28 Feb 2024 - Sean Felton

Kemp Quarries - Benton County Stone - Gravette 15100 N Hwy 59 Sulphur Springs, AR

US 72768 Contact:

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. gravette@bentoncountystone.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: