WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

ATTENTION

Area

## KEMP QUARRIES / RIVER VALLEY BACKBONE

WL135

Component Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)

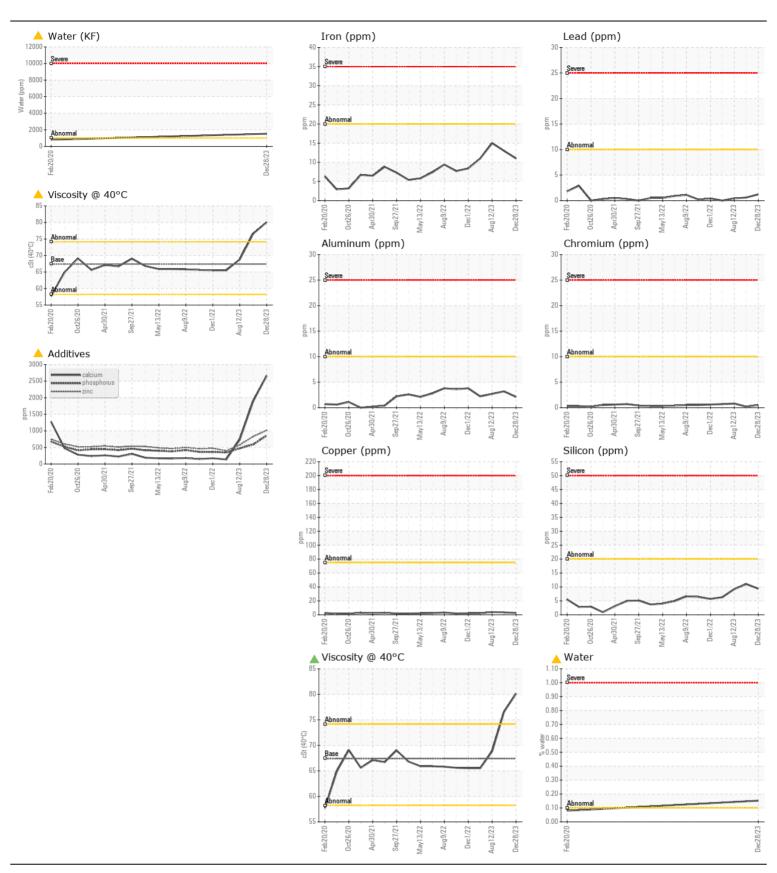
PETRO CANADA HYDREX AW 68 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at	Sample Number		Client Info		PCA0069892	PCA0084852	PCA0084833
the next service interval to monitor.	Sample Date		Client Info		28 Dec 2023	25 Oct 2023	12 Aug 2023
	Machine Age	hrs	Client Info		52934	52934	52602
	Oil Age	hrs	Client Info		900	900	300
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	11	13	15
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	3	3
	Lead	ppm	ASTM D5185m	>10	1	<1	<1
	Copper	ppm	ASTM D5185m	>75	3	3	4
	Tin	ppm	ASTM D5185m	>10	1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	9	11	9
There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	0
Thore is a light concentration of water process in the oil.	Water	%	ASTM D6304	>0.1	<b>△</b> 0.152		
	ppm Water	ppm	ASTM D6304	>1000	<u> </u>		
	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	>0.1	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	2
The oil viscosity is higher than normal. Additive levels indicate the	Boron	ppm	ASTM D5185m	0	0	<1	0
addition of a different brand, or type of oil.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	0	15	14	20
	Calcium	ppm	ASTM D5185m		<b>2660</b>	<b>1894</b>	732
	Phosphorus	ppm	ASTM D5185m	330	<b>859</b>	592	473
	Zinc	ppm	ASTM D5185m		<b>1017</b>	828	572
	Sulfur	ppm	ASTM D5185m	760	<b>4031</b>	<b>2400</b>	1688

Visc @ 40°C cSt

ASTM D445 67.4

▲ 80.1

68.8





Certificate L2367

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

: PCA0069892 : 06054446 : 10820395

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

: 08 Jan 2024 : 10 Jan 2024 : Jonathan Hester

Diagnostician Test Package : MOB 1 ( Additional Tests: KF )

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)

Kemp Quarries - River Valley - Backbone

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F: