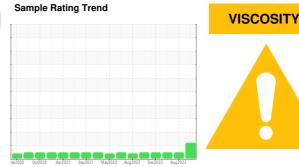


OIL ANALYSIS REPORT





KEMP QUARRIES / RIVER VALLEY BACKBONE WL135 Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Recommendation The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0084852	PCA0084833	PCA0037140
	Sample Date		Client Info		25 Oct 2023	12 Aug 2023	13 Jan 2023
	Machine Age	hrs	Client Info		52934	52602	52005
	Oil Age	hrs	Client Info		900	300	900
ear	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
component wear rates are normal.	Sample Status				ATTENTION	NORMAL	NORMAL
ontamination	WEAR META	IS	method	limit/base	current	history1	history2
ere is no indication of any contamination in the	Iron		ASTM D5185m		13	15	11
	Chromium	ppm			<1		
Fluid Condition		ppm	ASTM D5185m			<1	<1
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	3	2
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		3	4	2
	Tin	ppm	ASTM D5185m	>10	<1	0	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	0	<1	0	0
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	<1	<1	3
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	0	14	20	23
	Calcium	ppm	ASTM D5185m	50	<u> </u>	732	135
	Phosphorus	ppm	ASTM D5185m	330	592	473	347
	Zinc	ppm	ASTM D5185m	430	828	572	397
	Sulfur	ppm	ASTM D5185m		▲ 2400	1688	764
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	11	9	6
	Sodium	ppm	ASTM D5185m		2	2	<1
	Potassium	ppm	ASTM D5185m	>20	<1	0	0
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris		*Visual	NONE	NONE	NONE	NONE
		scalar		NONE			
	Sand/Dirt	scalar	*Visual		NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	67.4	A 76.6	68.8	65.5



OIL ANALYSIS REPORT

