

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area KEMP QUARRIES / HULBERT Machine Id WL068

Component Rear Left Final Drive

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

SAMPLE INFOR		method	limit/base	current	history1	history2
			11111/0030		PCA0086434	
Sample Number		Client Info		PCA0109297		PCA008612
Sample Date	h an	Client Info		05 Jan 2024	05 Jul 2023	04 Mar 2023
Machine Age	hrs	Client Info		24725	23571	0
Oil Age	hrs	Client Info		0	23571	÷
Oil Changed Sample Status		Client Info		Changed SEVERE	N/A SEVERE	Not Changd NORMAL
· · · ·		and the set	Part la rece			
CONTAMINA ⁻ Water	HON	method WC Method	limit/base	current NEG	history1 NEG	history2 NEG
	0		- m	-		
WEAR META		method	limit/base		history1	history2
Iron	ppm		>800	• 3693	93141	515
Chromium	ppm	ASTM D5185m		8	7	<1
Nickel	ppm	ASTM D5185m		<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		11	13	3
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		60	39	6
Tin	ppm	ASTM D5185m	>8	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21	21	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	3	4	2
Manganese	ppm	ASTM D5185m	0	24	21	4
Magnesium	ppm	ASTM D5185m	9	56	58	34
Calcium	ppm	ASTM D5185m	3114	2422	2710	2531
Phosphorus	ppm	ASTM D5185m	1099	828	942	1045
Zinc	ppm	ASTM D5185m	1245	769	936	1213
Sulfur	ppm	ASTM D5185m	7086	5821	8686	7474
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	50	41	14
Sodium	ppm	ASTM D5185m		5	3	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	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	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
		43.77 1		1150		NEO
Free Water	scalar	*Visual		NEG	NEG	NEG

Recommendation

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Fluid

🛑 Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

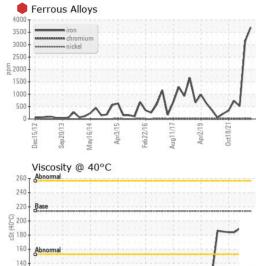


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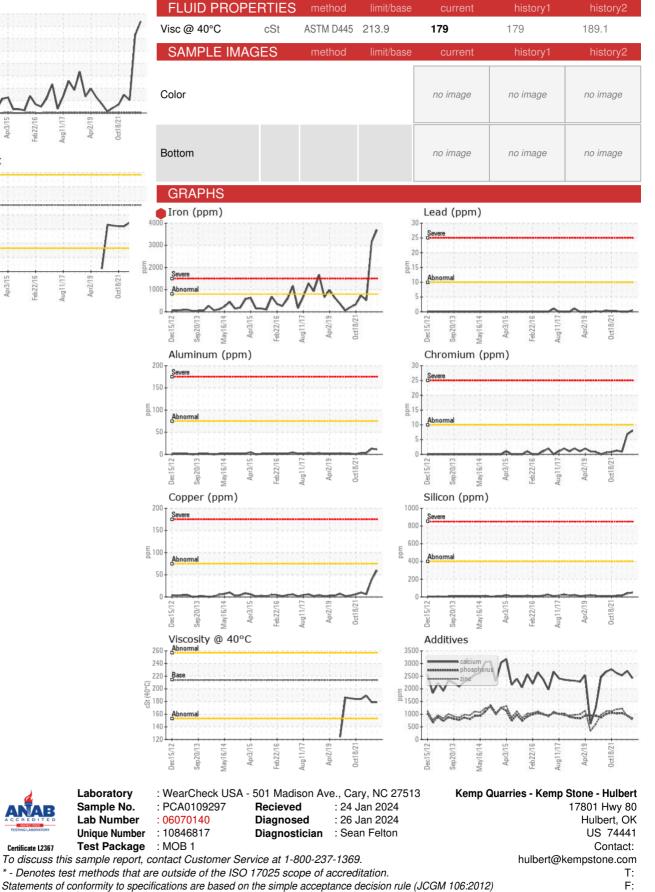
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Aug11/17

AL77/16



Certificate L2367