WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

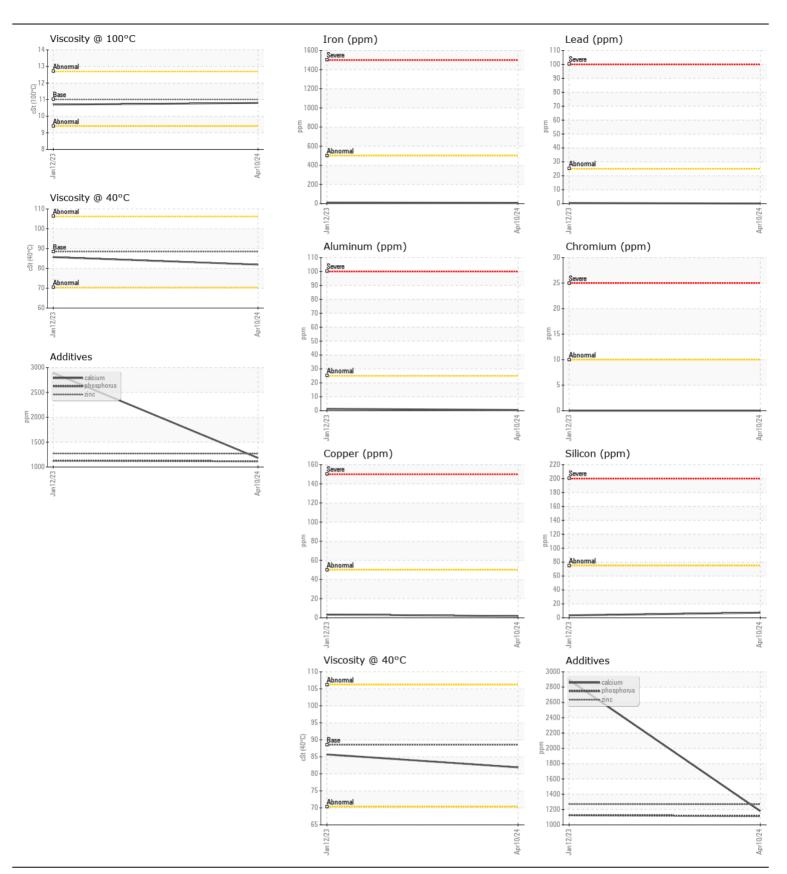


CATERPILLAR 930K 2211602

Front Axle

PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

PETRO CANADA PRODURO T	O-4 SAE 30	(G	AL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		PC0088746	PC0071084	
	Sample Date		Client Info		10 Apr 2024	12 Jan 2023	
	Machine Age	hrs	Client Info		8620	7756	
	Oil Age	hrs	Client Info		1000	1000	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>500	7	10	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0	0	
	Nickel		ASTM D5185(m)		0	0	
	Titanium	ppm	ASTM D5185(m)	>10	0	<1	
	Silver	ppm	ASTM D5185(III) ASTM D5185(m)		0	0	
	Aluminum	ppm	. ,	>25	<1	1	
	Lead	ppm	ASTM D5185(m)	>25	0	<1	
	Copper	ppm	ASTM D5185(m)	>50	2	3	
	Tin	ppm	ASTM D5185(m)		0	0	
	Vanadium	ppm	ASTM D5185(III) ASTM D5185(m)	>10	0	0	
		ppm scalar	Visual*	NONE	NONE	NONE	
	White Metal Yellow Metal		Visual*	NONE		NONE	
	reliow Metal	scalar	visuai	NONE	NONE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>75	7	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0	<1	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	VLITE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185(m)		0	1	
	Boron	ppm	ASTM D5185(m)	2	2	4	
	Barium	ppm	ASTM D5185(m)	0	0	0	
	Molybdenum	ppm	ASTM D5185(m)	0	0	<1	
	Manganese	ppm	ASTM D5185(m)	9	0	<1	
	Magnesium	ppm	ASTM D5185(m)	1	890	111	
	Calcium	ppm	ASTM D5185(m)	3131	1181	2893	
	Phosphorus	ppm	ASTM D5185(m)	1194	1115	1127	
	Zinc	ppm	ASTM D5185(m)	1281	1268	1272	
	Sulfur	ppm	ASTM D5185(m)	3811	3139	3638	
	Visc @ 40°C	cSt	ASTM D7279(m)	88.5	81.9	85.7	
	Visc @ 100°C	cSt	ASTM D7279(m)	11.01	10.8	10.7	
	Viscosity Index (VI)	Scale	ASTM D2270*	110	117	109	
Report Id: LAVCL LIWCAMIST 02630317 (Generated: 04/22/2024 08:22:28) Rev: 1				Conta	aci/i ocation	Doug Franc	ie - I AVCI I





ISO 17025:2017
Accredited
Laboratory

Laboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: PC0088746 **Received**: 19 Apr 2024

 Lab Number
 : 02630317
 Tested
 : 19 Apr 2024

 Unique Number
 : 5763449
 Diagnosed
 : 22 Apr 2024 - Kevin Marson

Test Package: MOB 1 (Additional Tests: KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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