

145463-1218 Component

Machine Id

## Component Diesel Engine Fluid

## PETRO CANADA SUPREME 5W30 (--- GAL)

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR
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All component wear rates are normal.

RECOMMENDATION

## CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0287869	LH0260011	
	Sample Date		Client Info		08 Apr 2024	18 May 2023	
	Machine Age	hrs	Client Info		1500	470	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
				400		-7	
	Iron	ppm	ASTM D5185(m)	>100	7	/	
	Chromium	ppm	ASTM D5185(m)	>5	0	<1	
	NICKEI	ppm	ASTM D5185(m)	>5	0	0	
	l itanium	ppm	ASTM D5185(m)	0	<1	<1	
	Silver	ppm	ASTM D5185(m)	>3	0	0	
	Aluminum	ppm	ASTM D5185(m)	>15	4	3	
	Lead	ppm	ASTM D5185(m)	>30	<1	5	
	Copper	ppm	ASTM D5185(m)	>125	22	120	
	Tin	ppm	ASTM D5185(m)	>5	0	1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	Silicon	ppm	ASTM D5185(m)	>60	5	9	
	Potassium	ppm	ASTM D5185(m)	>20	14	2	
	Fuel		WC Method	>5	<1.0	1.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	9.1	11.6	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	37.4	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	Sodium	ppm	ASTM D5185(m)		2	2	
	Boron	ppm	ASTM D5185(m)	186	26	90	
	Barium	ppm	ASTM D5185(m)	<1	<1	19	
	Molybdenum	ppm	ASTM D5185(m)	79	71	49	
	Manganese	ppm	ASTM D5185(m)	0	0	<1	
	Magnesium	ppm	ASTM D5185(m)	578	418	845	
	Calcium	ppm	ASTM D5185(m)	1002	1729	1450	
	Phosphorus	ppm	ASTM D5185(m)	745	924	802	
	Zinc	ppm	ASTM D5185(m)	837	1102	869	
	Sulfur	ppm	ASTM D5185(m)	2502	2674	2078	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	47.7	
	Visc @ 100°C	cSt	ASTM D7279(m)	11.42	10.7	11.7	

## 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.



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 American Iron and Metal CALA Sample No. Received : LH0287869 : 12 Apr 2024 Lab Number : 02628391 Tested : 12 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5761523 Diagnosed : 12 Apr 2024 - Wes Davis Test Package : MOB 1 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.

Report Id: AME145SAI [WCAMIS] 02628391 (Generated: 04/12/2024 12:56:16) Rev: 1

145 GATEWAY ST. SAINT JOHN, NB CA E2M 5S8 Contact: Service Manager

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