

Machine Id 4175 14TH AVENUE UNIT #2 Component 2 Diesel Engine PETRO CANADA XR 4 SAE 15W40 (24 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR	

All component wear rates are normal.

CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
e	Sample Number		Client Info		WC0897578	WC0515876	
	Sample Date		Client Info		23 Jan 2024	05 Jan 2021	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
	Iran			. 51	2	0	
	Iron	ppm	ASTM D5185(m)	>51		2	
	Chromium	ppm	ASTM D5185(m)	>11	0	0	
	Nickel	ppm	ASTM D5185(m)	>5	0	0	
	Titanium	ppm	ASTM D5185(m)	0	0	0	
	Silver	ppm	ASTM D5185(m)	>3	0	0	
	Aluminum	ppm	ASTM D5185(m)	>31	<1	1	
	Lead	ppm	ASTM D5185(m)	>26	<1	<1	
	Copper	ppm	ASTM D5185(m)	>26	1	1	
	Tin	ppm	ASTM D5185(m)	>4	0	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	Silicon	ppm	ASTM D5185(m)	>22	6	4	
	Potassium	ppm	ASTM D5185(m)	>20	0	<1	
	Fuel	%	ASTM D7593*	>2.1	1.1	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	4.5	4.5	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	18.9	
	Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	
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	Sodium	ppm	ASTM D5185(m)	>31	1	2	
	Boron		ASTM D5185(m)		41	54	
	Barium	ppm	ASTM D5185(m)	1	0	0	
	Molybdenum	ppm	ASTM D5185(m)	1	62	69	
	Manganese	ppm	ASTM D5185(m)	10	0	<1	
	Magnesium	ppm	ASTM D5185(m)	10	930	953	
	Calcium	ppm	ASTM D5185(m)	3032	1074	1116	
	Phosphorus	ppm	ASTM D5185(m)	1054	1018	1023	
	Zinc	ppm	ASTM D5185(m)	1332	1173	1238	
	Sulfur	ppm	ASTM D5185(m)	3985	2778	2929	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	13.8	
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.9	12.7	

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.

Contact/Location: Selome Afework - NORWOO





