

OIL ANALYSIS REPORT

Sample Rating Trend







PETRO CANADA 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

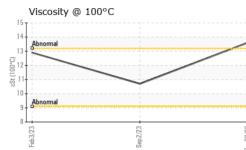
Fluid Condition

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888424	LH0275271	LH0228973
Sample Date		Client Info		20 Dec 2023	02 Sep 2023	03 Feb 2023
Machine Age	hrs	Client Info		0	2565	2000
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	3 .6	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	13	17	19
Chromium	ppm	ASTM D5185(m)	>20	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	3	4	4
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)		<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)	210	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1	2	6
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		56	58	56
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		935	950	870
Calcium	ppm	ASTM D5185(m)		1007	1000	1119
Phosphorus	ppm	ASTM D5185(m)		967	1062	1026
Zinc	ppm	ASTM D5185(m)		1130	1163	1145
Sulfur	ppm	ASTM D5185(m)		2571	2561	2531
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Sodium	ppm	ASTM D5185(m)	200	1	1	1
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
INFRA-RED	le le	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.1	0
Nitration	Abs/cm	ASTM D7644 ASTM D7624*		6.2	6.7	7.4
Sulfation	Abs/cm Abs/.1mm	ASTM D7624 ASTM D7415*	>20	0.2 17.8	18.1	20.5
Sullation	MUSI. []]]]	A01WI D7410	~00	17.0	10.1	20.0



OIL ANALYSIS REPORT



FLUID DEGRAD	ATION	method		current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	13.9	14.5
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	VLITE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water Free Water	scalar scalar	Visual* Visual*	>0.2	NEG NEG	NEG NEG	NEG NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		13.6	▲ 10.7	12.9
GRAPHS						
Iron (ppm)			100	Lead (ppm)		
200 Severe			80	Severe		
150 100 - Abnormal			E 60	i 		
			10			
50			20			
e	Sep2/23 -			Feb 3/23	Sep 2/23	
Feb	Sept		Dec20/23	Feb	Sep	
Aluminum (ppm)			50	Chromium (ppm)	
40 Severe			40	Severe		
E ³⁰ Abnormal			³⁰	Abnormal		
					••••••••••••••••••••••••••••••••••••••	
10			10			
Feb3/23	Sep 2/23		Dec20/23	Feb3/23	Sep2/23	
۳ Copper (ppm)	Se		Dec			
400			80	Silicon (ppm	ı) 	
300 - Striffmal			60			
§ 200-			<u></u> 40			
100 -			20	Abnormal		
			0		3	
Feb 3/23	Sep2/23		Dec20/23	Feb 3/23	Sep2/23	
Viscosity @ 100°	C			Soot %		L
16 T			6.0	Severe		
0012 3 10		_	_ه و4.0	T		
은 12 성			2.0	Abnormal		
Abnormal						
	23-		0.0	23	/23	
Feb 3/23	Sep 2/23		Dec20/23	Feb3/23	Sep 2/23	
: WearCheck - C8-1 : WC0888424 r : 02605197 per : 5698282 ge : MOBCE (Additional	Recieved Diagnos Diagnos	d : 27 ed : 27 tician : Kev	lington, ON L Dec 2023 Dec 2023 rin Marson	7L 5H9 RONI /	100 MAC	CAVATING LT INTOSH BLV /AUGHAN, O CA L4K 4F : Service Tea

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.

CALA

ISO 17025:2017 Accredited Laboratory

T:

F: