

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



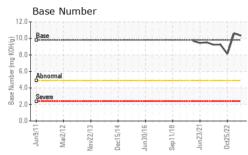
G.LOPES CONSTRUCTION INC./Off-Road

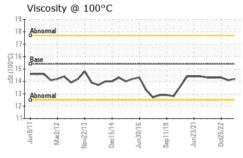


PETRO CANADA DO		,	in2011 Mar2	012 Nov2013 Dec2014	Jun2016 Sep2018 Jun2021	0ct2022	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	e current	history1	history2
Recommendation	Sample Number		Client Info		PCA0109670	PCA0098545	PCA0078200
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Feb 2024	03 Jul 2023	25 Oct 2022
Wear	Machine Age	hrs	Client Info		14635	14029	14029
All component wear rates are normal.	Oil Age	hrs	Client Info		13445	12839	13231
Contamination	Oil Changed		Client Info		N/A	N/A	N/A
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
il.	CONTAMINAT	ION	method	limit/base	e current	history1	history2
luid Condition he BN result indicates that there is suitable	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the	Water		WC Method	>0.21	NEG	NEG	NEG
il is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	e current	history1	history2
	Iron	ppm	ASTM D5185m	>51	7	9	11
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	2	<1	2
	Lead	ppm	ASTM D5185m	>26	<1	<1	<1
	Copper	ppm	ASTM D5185m	>26	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	5	8	0
	Barium	ppm	ASTM D5185m	0	10	2	0
	Molybdenum	ppm	ASTM D5185m	60	62	62	54
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	965	906	930
	Calcium	ppm	ASTM D5185m	1070	1043	1099	1079
	Phosphorus	ppm	ASTM D5185m	1150	1054	1026	939
	Zinc	ppm	ASTM D5185m	1270	1235	1201	1230
	Sulfur	ppm	ASTM D5185m	2060	3334	3294	3366
	CONTAMINAN	ITS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>22	4	4	4
	Sodium	ppm	ASTM D5185m	>31	3	6	3
	Potassium	ppm	ASTM D5185m	>20	7	8	5
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.3	0.4	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	5.4	5.6	6.5
	Sulfation	Abs/.1mm	*ASTM D7415		17.5	18.4	20.1
	FLUID DEGRA	DATION	method	limit/base	e current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	14.6	14.4
	Base Number (BN)		ASTM D2896		10.34	10.60	8.13



OIL ANALYSIS REPORT





		VISUAL		method	limit/base	current	history1	history2
	-F	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	\sim	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
Jun30/16 Sep11/18	Jun23/21 0ct25/22	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sep	Jun	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
		Free Water	scalar	*Visual		NEG	NEG	NEG
		FLUID PROPE		method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.1	14.3
\neg		GRAPHS						
\sim		Iron (ppm)				Lead (ppm)		
		200 Severe			100		101010101010	
Jun30/16 Sep11/18	Jun23/21 0ct25/22	150-			80	Severe		
Sep	Jun Oct	톱 100 -			60 E			
		50 Abnormal			40	Abnormal		
			$\sim \wedge$	~~~~	20			
		9/11 13 14	116	3/21	223		714 116	3/21
		Jun9/11 Mar2/12 Nov22/13	Jun30/16	Sep 11/18 Jun 23/21	0ct25/22	Jun9/11 Mar2/12 Nov22/13	Dec15/14 Jun30/16 Sen11/18	Jun23/21
		Aluminum (ppm)			25	Chromium (pp	om)	
		50 -			20	Severe		
		40 E 30 - Abnormal			e ¹⁵	Abnormal		
		20			¹⁰	-		
		10			5	• • • • • • • • • • • • • • • • • • •	~	
		Jun9/11	0/16	3/21	2/22	Jun9/11 Mar2/12 lov22/13	5/14 0/16	3/21
		Jun9/11 Mar2/12 Nov22/13 Dec15/14	Jun30/16	Sep11/18 Jun23/21	0ct25/22	Jun9/11 Mar2/12 Nov22/13	Dec15/14 Jun30/16 Sen11/18	Jun23/21 0ct25/22
		Copper (ppm)			40	Silicon (ppm)		
		150 Severe			40	Severe		
		100-			30			
		Edd			틆 20	Abnormal		
		50 - Abnormal			10			
						\sim	$\sim \sim \sim$	\sim
		Jun9/11 Mar2/12	Jun30/16 -	Sep11/18	0ct25/22	Jun9/11- Mar2/12- Vov22/13-	Dec15/14 - Jun30/16 -	Jun23/21-
		Jan Stranger Strange		Sepl	0ct2	2	Jun3	Juni, Juni
		²⁰	1973-1975	111111111111				
		18 - Abnormal			·····································	Base		
		(0.016 Base 314 Abaamal			B 8.0			
		Abnormal	~		(D)H0.0 B	Abnormal		
		12			2.0	Severe		
			16	718	0.0	/11	114	22
		Jun9/11 Mar2/12 Nov22/13	Jun30/16	Sep11/18 Jun23/21	0ct25/22	Jun9/11 Mar2/12 Nov22/13	Dec15/14 Jun30/16 Sen11/18	Jun23/21 0ct25/22
	Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 50 : PCA0109670 : 06093185 : 10886038 : MOB 2	1 Madiso Recei Teste Diagr	n Ave., Cary ved : 19 d : 20 nosed : 20	y, NC 27513 9 Feb 2024 9 Feb 2024 9 Feb 2024 - W		G LOPES CO 565 \	DINSTRUCTIO WINTHROP S TAUNTON, M US 0278
Denotes test	Test Package sample report, t methods that							

Page 2 of 2