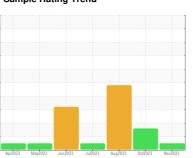


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



FORD 618 (S/N 1FM5K8AR3GGC91635)

Gasoline Engine

PETRO CANADA SUPREME 5W20 MOTOR OIL (6 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

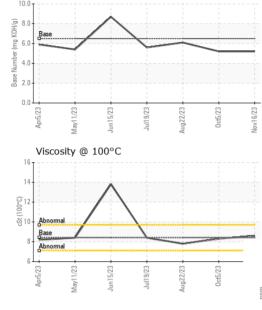
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Apr2023 May2023 Jun2023 Jun2023 Ov2023 Nov2023									
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0112895	PCA0105352	PCA0100390			
Sample Date		Client Info		16 Nov 2023	05 Oct 2023	22 Aug 2023			
Machine Age	mls	Client Info		111435	109433	107820			
Oil Age	mls	Client Info		2002	1613	914			
Oil Changed		Client Info		N/A	Changed	Changed			
Sample Status				NORMAL	ABNORMAL	SEVERE			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>150	4	4	4			
Chromium	ppm	ASTM D5185m	>20	<1	1	0			
Nickel	ppm	ASTM D5185m	>5	<1	<1	0			
Titanium	ppm	ASTM D5185m		<1	<1	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>40	3	5	<1			
Lead	ppm	ASTM D5185m	>50	0	0	<1			
Copper	ppm	ASTM D5185m	>155	3	5	2			
Tin	ppm		>10	0	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	183	52	44	82			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	36	63	65	70			
Manganese	ppm	ASTM D5185m	0	<1	0	<1			
Magnesium	ppm	ASTM D5185m	417	516	506	577			
Calcium	ppm	ASTM D5185m	1318	1114	1103	1031			
Phosphorus	ppm	ASTM D5185m	773	701	728	729			
Zinc	ppm	ASTM D5185m	845	811	797	900			
Sulfur	ppm	ASTM D5185m	2690	2653	2721	3141			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	25	△ 36	8 6			
Sodium	ppm	ASTM D5185m	>400	6	7	11			
Potassium	ppm	ASTM D5185m	>20	2	6	28			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844		0.1	0	0			
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.9	6.9			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.3	16.5			
FLUID DEGRA	OATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.8	10.4			
Base Number (BN)	mg KOH/g	ASTM D2896	6.5	5.2	5.2	6.1			
Dago Hulling (DIV)	my Norly	, 10 I WI DZ000	5.0	J.2	0.2	0.1			



Base Number

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	DTIEO	l	Para St. /leanna		for the control	la la la va O

	ERITES	method			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	8.42	8.6	8.3	7.8

	GRA	\PHS	3												
500	Iron	(ppm))					200	Lead (ppn	n)					
400	Savara							150	Severe						
돌 ³⁰⁰ 200	ļ									-	-				
^음 200	Abnorm	al						튭 100 50	Abnormal						
100	1.5							0							
U	Apr5/23	May11/23 -	Jun15/23 -	Jul19/23 -	Aug22/23 -	Oct5/23 -	Nov16/23	U	Apr5/23	Jun15/23	Jul19/23	Aug22/23 -	0ct5/23 -	Nov16/23	
100		inum	(ppm)					50	Chromium	n (ppm)					
100	Develo							40	Severe						
E 60								_∈ 30	ļļ						
월 40	Abnorm	al						E 20	Abnormal						
20	1 :							10							
U	Apr5/23	May11/23.	Jun15/23 -	Jul19/23 -	Aug22/23	Oct5/23 -	Nov16/23	U	Apr5/23	Jun15/23 -	Jul19/23	Aug22/23 -	Oct5/23 -	Nov16/23-	
				n C	Aug	ő	Nov		≥		n o	Aug	Õ	Nov	
300								100	Silicon (ppm)						
250 200	Severe							80	Severe			\wedge			
를 150	Abnorm	al						Ed 40				/ `	/		
100 50								10 40 20	Abnormal		-/			_	
0					, m	m		0		<u></u>			- m		
	Apr5/23	May11/23	Jun15/23	Jul19/23	Aug22/23	Oct5/23	Nov16/23		Apr5/23 May11/23	Jun15/23	Jul19/23	Aug22/23	0ct5/23	Nov16/23	
			100°C	-	Ā		Z		≥ Base Num		,	Ā		2	
16	T:							10.0 \$	T :						
14 2 12			\wedge					Base Number (mg KOH/g) 7.0 8 9 0 0 8 8 0 0 0 8 8 0 0 0 0 0 0 0 0	Base		_				
cSt (100°C)	Abnorm	al	/ · `					J) agu 4.0							
8	Duac							n 9se √2.0							
6	23	- 52	23	23	Z3 	- 23	- 23	0.0	23	73	23	23	73	23	
	Apr5/23	May11/23	Jun15/23	Jul19/23	Aug22/23	0ct5/23	Nov16/23		Apr5/23	Jun15/23	Jul19/23	Aug22/23	0ct5/23	Nov16/23 -	





Laboratory Sample No. Lab Number

Unique Number : 10794291

: PCA0112895 : 06039062

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Dec 2023 Diagnosed

: 20 Dec 2023 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

VILLAGE OF NORTH RIVERSIDE

2345 S DESPLAINES NORTH RIVERSIDE, IL US 60546

Contact: Service Manager vznrdpw@gmail.com

T: F:

Report Id: VILNOR [WUSCAR] 06039062 (Generated: 12/20/2023 04:46:23) Rev: 1

Contact/Location: Service Manager - VILNOR