

OIL ANALYSIS REPORT

Sample Rating Trend





PETRO CANADA DURON HP 15W40 (--- 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.

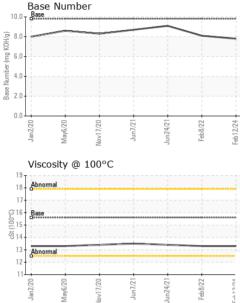
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0082725	PCA0058466	PCA0043127
Sample Date		Client Info		12 Feb 2024	08 Feb 2022	24 Jun 2021
Machine Age	hrs	Client Info		0	6001	0
Oil Age	hrs	Client Info		0	6001	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	22	13	10
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	6	2	0
Lead	ppm	ASTM D5185m	>40	2	<1	<1
Copper	ppm	ASTM D5185m	>330	6	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	18	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		92	65	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1453	968	934
Calcium	ppm	ASTM D5185m		1523	1255	1050
Phosphorus	ppm	ASTM D5185m		1470	1133	1007
Zinc	ppm	ASTM D5185m		1858	1352	1164
Sulfur	ppm	ASTM D5185m		4612	3040	2557
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	6	4
Sodium	ppm	ASTM D5185m		3	<1	1
Potassium	ppm	ASTM D5185m	>20	12	5	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.2	7.8	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.2	22
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	15.2	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.1	0.1
Dase Multiber (DN)	ing iton/g	AGTIVI DZ030	0.0	7.0	0.1	9.1



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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
FLUID PROPE	RTIES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445	15.6	13.3	13.3	13.4
GRAPHS						
Ferrous Alloys						
²⁵ T						
iron						
20 - nickol			- / · · · ·			
nickel			/			
15		/				
10						
5-						
0 *************************************			ALE LA			
	/21	22	24			
	un7/21	in 24/21	612/24 44448688			
Jan 2/20	Jun7/21	Jun24/21	Feb12/24			
Jan2/20 May6/20 Nov17/20		Jun 24/21	Feb12/24			
02/2 usr/2/20 Non-ferrous Meta		Jun24/21	Feb12/24			
Jan2/20 May6/20 Nov17/20		Jun24/21	Feb12/24			
Non-ferrous Meta		Jun24/21	Feb12/24			
Non-ferrous Meta		Jun24/21	Feb12224			
07/2/uer Non-ferrous Meta		Jun24/21	Feb 1224			
07274 Non-ferrous Meta		Jun24/21	Feb12224			
07121/voy Non-ferrous Meta		Jun24/21	Feb12/24			
07/2/uer Non-ferrous Meta		Jun24/21	Feb1224			
07121/voy Non-ferrous Meta		Jun24/21	Feb12/24			
07121/voy Non-ferrous Meta		Jun24/21	Feb12224			
0727 Provide Action of the second sec		Jun24/21	Feb1224			
0727 Liver Non-ferrous Meta	ls		/			
0727 Liver Non-ferrous Meta	ls		/			
0727 Liver Non-ferrous Meta	ls		/			
07/LIvon 02/2/ref 02/2/ref 02/2/ref	ls t2/tunp	Jun24/21	Feb12/24 Feb12/24			
072/Livey Non-ferrous Meta 072/Livey	ls t2/tunp		Feb12/24	Base Number		
0727 Liven Non-ferrous Meta 0729 Jew Non-ferrous Meta 0727 Liven 0727 Liven Viscosity @ 100°C	ls t2/tunp		Feb12/24	Base Number		
072/Livey Non-ferrous Meta 072/Livey	ls t2/tunp		Feb12/24	Base Number		
072/Liven Non-ferrous Meta 072/Liven Non-ferrous Meta 072/Liven 072/Liven Viscosity @ 100°C	ls t2/tunp		E401224	Base Number		
072 Per Non-ferrous Meta 072 Per Viscosity @ 100°C	ls t2/tunp		E401224	Base Number		
072 Per Non-ferrous Meta 072 Per Non-ferrous Meta 072 Per Viscosity @ 100°C	ls t2/tunp		E401224	Base Number		
072 Per Non-ferrous Meta 072 Per Non-ferrous Meta 072 Per Viscosity @ 100°C	ls t2/tunp		E401224	Base Number		
072 Per Non-ferrous Meta 072 Per Non-ferrous Meta 072 Per Viscosity @ 100°C	ls t2/tunp		E401224	Base Number		
0727 Part of the second	ls t2/tunp		E401224	Base Number		
072 Per Non-ferrous Meta 072 Per Non-ferrous Meta 072 Per Viscosity @ 100°C	ls t2/tunp		-0.01 per (mg K0H(e) -0.3	Base Number		

0.0

Jan2/20 -

May6/20 -

Nov17/20 -

Jun7/21-

un24/21-

AVR - APPLE VALLEY READY MIX

eb8/22.

14698 GALAXY AVE

APPLE VALLEY, MN

eb12/24.



Unique Number : 10936062 Diagnosed : 21 Mar 2024 - Jonathan Hester Test Package : FLEET Contact: senia zimmer Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. avrconcrete.senia@gmail.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (952)953-2992 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (952)953-2994

Jov17/20

Jun7/21.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Tested

lun24/21-

Feb8/22.

eb12/24 -

: 19 Mar 2024

: 19 Mar 2024

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Laboratory

Sample No.

Lab Number : 06121911

Jan2/20 -

: PCA0082725

/lav6/20

US 55124