

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Component Diesel Engine

Fluid

PETRO CANADA DURON SHP 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.

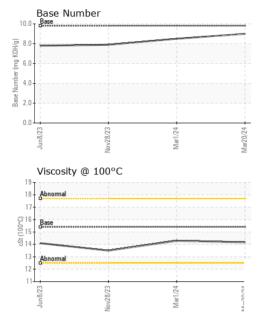
Fluid Condition

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

SAMPLE INFORMATION method imit/base current history1 history2 Sample Number Client Info 20 Mar 2024 01 Mar 2024 28 Nov 2023 Machine Age hrs Client Info 17050 10300 16305 Oil Age hrs Client Info 15156 0 0 Oil Changed Client Info 15156 0 0 0 Sample Status Client Info Changed Not Changd Not Changd CONTAMINATION method Imit/base current History1 History2 Fuel WC Method >3.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Orn pm ASTM D51655 >20 <1 <1 <1 Inn ppm ASTM D51655 >2 0 0 0 Silver pm ASTM D51655 >2 0 0 <1 Inn ppm <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
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	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 imit/base >25 >20 imit/base >6 >20 >30	0 62 0 933 1060 964 1200 2791 <u>current</u> 5 1 1 1 0.2 5.6 17.7	0 66 0 1007 1059 1031 1317 2975 history1 4 6 2 2 history1 0.2 7.9 19.5	0 59 0 1100 1223 1182 1424 3370 history2 4 8 <1 history2 0.6 8.6 19.4
Base Number (BN) mg KOH/g ASTM D2896 9.8 9.0 8.5 7.9	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 60 0 1010 1070 1150 1270 2060 imit/base >25 >20 imit/base >6 >20 >30	0 62 0 933 1060 964 1200 2791 <u>current</u> 5 1 1 1 0.2 5.6 17.7	0 66 0 1007 1059 1031 1317 2975 history1 4 6 2 2 history1 0.2 7.9 19.5	0 59 0 1100 1223 1182 1424 3370 history2 4 8 <1 history2 0.6 8.6 19.4
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	0 60 1010 1070 1150 1270 2060 limit/base >20 limit/base >20 s 30 limit/base	0 62 0 933 1060 964 1200 2791 <u>current</u> 5 1 1 1 <u>current</u> 0.2 5.6 17.7 <u>current</u>	0 66 0 1007 1059 1031 1317 2975 history1 4 6 2 2 history1 0.2 7.9 19.5 history1	0 59 0 1100 1223 1182 1424 3370 history2 4 8 <1 kistory2 0.6 8.6 19.4 history2 15.8



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
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.17	14.3	13.5
GRAPHS						
Ferrous Alloys						
50 iron						
40						
TO announce nickel						
30						
20		~				
10						
		4	4-			
Jun8/23 Vov28/23		Mar1/24	Mar20/24			
≥ Non-ferrous Meta	als	_	2			
10 copper						
8						
PROFESSION TIL						
6						
2						
	Concession of Females, Spinster, Spinste		Contraction of the local data			
123	and a second	/24	124			
Jun8/23		Mar1/24	Mar20/24			
. 2			≥			

Base Number

Nov28/23

10.0

8 (mg KOH/g)

6 | Number (4 (Base

0.0

Jun8/23

Mar20/24 -

: 22 Mar 2024



Lab Number : 06126189 Tested : 28 Mar 2024 Sterling Heights, MI Unique Number : 10940340 Diagnosed : 28 Mar 2024 - Don Baldridge Test Package : FLEET Contact: Frank Wolak Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. fwolak@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (586)825-9514 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

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

Mar1/24 -

Viscosity @ 100°C

Vov28/23

19

18 17

()-16 ()-00 ()-15 ()-15 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-16 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15 ()-15)

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Laboratory Sample No. 1118/73

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Page 2 of 2