

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (46 QTS)

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.

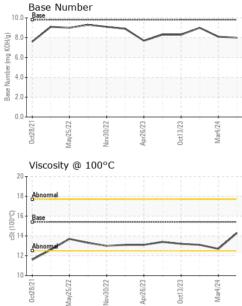
Sample Number Client Info 25 Mar 2024 04 Mar 2042 21 Nov 2023 Sample Date Icilent Info 25 Mar 2024 04 Mar 2042 21 Nov 2023 Machine Age hrs Client Info 598 1 67 Oil Age hrs Client Info 586 1 67 Oil Age Ns Client Info S86 1 67 Sample Status Imational Second Not Changd Not Changd Not Changd CONTAMINATION method Imitobas current history history Fuel WC Method >2.0 <1.0 <1.0 <1.0 Water WC Method >2.0 NEG NEG NEG Glycol WC Method >2.0 <1.0 0 <1.0 Nortal ppm ASTM05155 >2.0 0 0 <1.0 Nortal ppm ASTM05155 >3.0 0 0 <1.0 Nickel ppm ASTM05155 >	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
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	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3 >20	5 0 57 <1 901 1071 887 1163 3307 <i>current</i> 2 2 2 6 <i>current</i> 0.4 8.0	4 0 63 <1 848 1050 884 1109 2775 history1 3 5 6 history1 0.4 7.4	8 0 54 <1 830 988 1017 1127 2972 history2 3 2 2 4 4 history2 0.1 5.1
Base Number (BN) mg KOH/g ASTM D2896 9.8 8.0 8.1 9.0	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 0 0 1010 1070 1150 1270 2060 imit/base >25 imit/base >3 >20	5 0 57 <1 901 1071 887 1163 3307 <u>current</u> 2 2 2 6 <u>current</u> 0.4 8.0 18.6	4 0 63 <1 848 1050 884 1109 2775 history1 3 5 6 history1 0.4 7.4 18.3	8 0 54 <1 830 988 1017 1127 2972 history2 3 2 4 4 history2 0.1 5.1 17.2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	0 0 0 1010 1070 1150 1270 2060 2060 225 20 220 220 20 3 20 3 20 3 3 20 3 3 20 3 3 20 3 3 3 20 3 3 3 20 3 3 3 3	5 0 57 <1 901 1071 887 1163 3307 Current 2 2 2 6 Current 0.4 8.0 18.6	4 0 63 <1 848 1050 884 1109 2775 history1 3 5 6 history1 0.4 7.4 18.3 history1	8 0 54 <1 830 988 1017 1127 2972 history2 3 2 4 4 history2 0.1 5.1 17.2 history2

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OIL ANALYSIS REPORT

VISUAL



TESTING LABORATORY Unique Number Certificate L2367 Test Package		ory : WearCheck USA -	Rece	Madison Ave., Cary, NC 27513 GFL Envi Received : 28 Mar 2024 Tested : 30 Mar 2024 Diagnosed : 30 Mar 2024 - Wes Davis ce at 1-800-237-1369.				ronmental - 622 - Traverse City Hauling 160 Hughes Dr Traverse City, MI US 49686 Contact: GARY BREWER		
		(5-00) to 10 12 13 13 12 11 10 12 12 10 12 12 10 12 12 10 12 12 12 12 12 12 12 12 12 12 12 12 12	Nov30/22 +	0ct13/23	(6)HOX bul) sequences bul) sequences bull sequences	0:d28/21	Nov30/22 Apr26/23	0ct13/23	Mar4/24	
		Viscosity @ 10	0°C		10.0 8.0 日本	Base Numb	er			
		4 2 0 12/82/90	Nov30/22	0ct13/23	Mark/24					
		12+ seat lead 100- tin E 6-								
		Non-ferrous M	Apr26/23	0ct13/23	Mar4/24					
				EZ	24					
Apr26/23 -	0ct13/23 - Mar4/24 -	50 - iron hiron iron hickel 40 - E 30 -								
		GRAPHS Ferrous Alloys								
		FLUID PRO Visc @ 100°C	PERTIES cSt	method ASTM D445	limit/base 15.4	current 14.3	history1 12.7	histo 13.1	ory2	
		Free Water	scalar	*Visual		NEG	NEG	NEG		
	0ct Ma	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NORML NEG	NORM	ΛL	
Apr26/23 -	0ct13/23	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	NONE		
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE	=		
	Precipitate Silt	scalar scalar	*Visual *Visual	NONE	NONE NONE	NONE	NONE			
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE			

limit/base

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Submitted By: TECHNICIAN ACCOUNT