

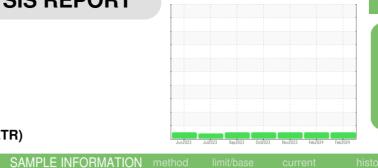
OIL ANALYSIS REPORT

Sample Rating Trend





1





PETRO CANADA DURON SHP 15W40 (--- LTR)

DIAGNOSIS

Machine Id 529013 Component Diesel Engine

Recommendation

Resample at the next service interval to monitor.

Wear

Fluic

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.

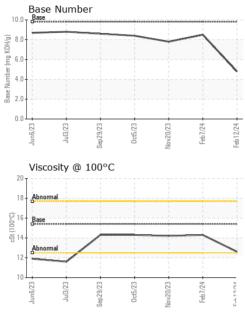
Sample Number Client Info GFL0061028 GFL0112769 GFL0091742 Sample Date Client Info 12 Feb 2024 07 Feb 2024 20 Nov 2023 Machine Age hrs Client Info 610 10688 10688 Oil Age hrs Client Info 610 10688 10688 Oil Changed Client Info NORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >0.2 NEG NEG NEG Grucol WC Method >0.2 NEG NEG NEG Nickel ppm ASTM D5185m >11 38 13 10 Chromium ppm ASTM D5185m >2 <1 0 0 Nickel ppm ASTM D5185m >2 <1 <1 0 Silver ppm ASTM D5185m >2 <1 <1 1 Kord Sint D5185m	SAMPLE INFOR	VIATION	method	limit/base	current	history1	history2
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Aluminum ppm ASTM D5185m >25 4 1 <1							
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Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum ppm ASTM D5185m 60 61 60 59 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 1010 879 1026 984 Calcium ppm ASTM D5185m 1070 1000 1074 1050 Phosphorus ppm ASTM D5185m 1070 1000 1074 1020 Zinc ppm ASTM D5185m 1270 1206 1299 1269 Sulfur ppm ASTM D5185m 2060 2691 3122 2918 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 4 6 6 6 5 5 104 1 2 INFRA-RED method limit/base current	ADDITIVES		method	limit/base	current	history1	history2
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Maganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 1010 879 1026 984 Calcium ppm ASTM D5185m 1070 1000 1074 1050 Phosphorus ppm ASTM D5185m 1150 941 1068 1020 Zinc ppm ASTM D5185m 1270 1206 1299 1269 Sulfur ppm ASTM D5185m 2060 2691 3122 2918 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 4 6 6 Sodium ppm ASTM D5185m >20 4 1 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D5185m >20 4 1 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >2	Molybdenum	ppm	ASTM D5185m	60	61	60	59
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Zinc ppm ASTM D5185m 1270 1206 1299 1269 Sulfur ppm ASTM D5185m 2060 2691 3122 2918 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 4 6 6 Sodium ppm ASTM D5185m >30 4 1 1 Potassium ppm ASTM D5185m >20 4 1 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.8 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 10.4 8.0 8.8 Sulfation Abs/.tm *ASTM D7415 >30 21.3 19.3 20.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414<	Phosphorus	ppm	ASTM D5185m	1150	941	1068	1020
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Sulfation Abs/.1mm *ASTM D7415 >30 21.3 19.3 20.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 15.3 16.8	Soot %	%	*ASTM D7844	>3	0.8	0.4	0.5
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 15.3 16.8	Nitration	Abs/cm	*ASTM D7624	>20	10.4	8.0	8.8
Oxidation Abs/.1mm *ASTM D7414 >25 18.1 15.3 16.8	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	19.3	20.7
Oxidation Abs/.1mm *ASTM D7414 >25 18.1 15.3 16.8	FLUID DEGRAI	DAT <u>ION</u>	method	limi <u>t/base</u>	current	history1	history2
Dase Multiper (DIN) IIIY NUTIV ASTINI D2030 3.0 4.0 8.3 7.8		Abo/ 1mm	*ACTM D7/14	- 0E	10 1	15.0	16 0

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OIL ANALYSIS REPORT

VISUAL



CERTIFICATE L2367 TE	Laboratory Sample No. Lab Number Unique Number Test Package	: 10884346 Diagnosed : 17 Feb 2024 - Wes Davis US						
		(2.001) 13 13 10 EZ/8/Inf EZ/8/IN	0ct5/23 +	Nov20/23	0.0 0.2 0.2 0.2 0.2 Base Mumber (mg KOH(d) 0.0		Sep 2 4/23	Nav2U/23 Feb7/24
		Viscosity @ 100°			0.0 8.0 H(d) 9.0 9.0			
		Uiscocity @ 100%	0 0 ct5/23	Nov20/23	Feb12/24			
					/			
		Non-ferrous Meta	Is					
		Jun6/23	0ct5/23	Nov20/23 Feb7/24	Feb12/24			
2	L	25 <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>			/			
0ct5/23	Feb7/24	Ferrous Alloys			1			
		Visc @ 100°C GRAPHS	cSt	ASTM D445	15.4	12.6	14.3	14.2
		Free Water FLUID PROPE	scalar BTIES	*Visual method	limit/base	NEG current	NEG history1	NEG history2
Nov N	Feb Feb	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
0ct5/23 Nov20/23	Feb 7/24	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	NONE NORML
	Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE	
		Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE

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Submitted By: TECHNICIAN ACCOUNT