

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

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

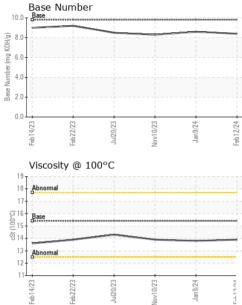
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0108496	GFL0108526	GFL0066021	
Sample Date		Client Info		12 Feb 2024	09 Jan 2024	10 Nov 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ION	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	5	5	13	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	1	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	0	0	<1	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	9	5	11	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	56	58	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	1053	928	934	
Calcium	ppm	ASTM D5185m	1070	1121	1045	1110	
Phosphorus	ppm	ASTM D5185m	1150	1135	1080	1033	
Zinc	ppm	ASTM D5185m	1270	1320	1257	1177	
Sulfur	ppm	ASTM D5185m	2060	3292	3108	2749	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	4	5	
Sodium	ppm	ASTM D5185m		2	3	7	
Potassium	ppm	ASTM D5185m	>20	0	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	5.9	6.0	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.4	20.3	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.5	16.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.6	8.3	

Contact/Location: See also GFL904,A,B,C, 927, 938) - Andy Kane - GFL904



OIL ANALYSIS REPORT



		Laboratory	Abnormal	-	Jan Jya	.0.	Feb14/23	Juli20123	+725Uller brippewa Falls HC
			19 18 Abnormal 17 0 16 Base 3 14 4 4 17 17 17 16 15 15 15 15 15 15 15 15 15 15			10. (B)HOX Bub Jack Market 4. 9888	0-		
			Uiscosity @ 100°C	~ 2	Jan 9/24	Feb 12/24			
			Non-ferrous Meta	. 2		B			
			4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Juicouza Vov10/23	Jan9/24	Feb12/24			
Jul20/23	Nov10/23	Jan9/24 1	12 10 E 8 6						
			GRAPHS Ferrous Alloys			· · · · · · · · · · · · · · · · · · ·			
			FLUID PROPE Visc @ 100°C	cSt	method ASTM D445	limit/base	current 13.9	history1 13.8	history2 13.9
			Free Water	scalar	*Visual		NEG	NEG	NEG
c	Z	L	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
Jul20/23	Nov10/23	Jan9/24 Feb12/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
		Silt Debris	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE	
		Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
			White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE

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