

OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id 811006

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

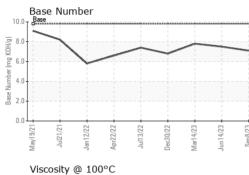
Component Diesel Engine

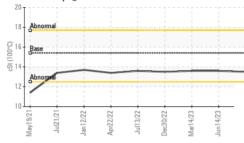
PETRO CANADA DURON SHP 15W40 (39 QTS)

N SHP 15W40 (3	9 QTS)	May2021 Ju	12021 Jan2022 Apr2022	Jul2022 Dec2022 Mar2023 Jun20	23 Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0061998	GFL0062004	GFL0061990
Sample Date		Client Info		08 Sep 2023	14 Jun 2023	14 Mar 2023
Machine Age	hrs	Client Info		6583	6259	5635
Oil Age	hrs	Client Info		594	625	527
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	11	12	8
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	3	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		<1	<1	2
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m		<1	3	1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m	210	0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	16	31
Barium	ppm	ASTM D5185m		0	<1	0
Volybdenum	ppm	ASTM D5185m	60	60	66	62
Vanganese	ppm	ASTM D5185m		<1	<1	<1
Vagnesium	ppm	ASTM D5185m	1010	917	1025	866
Calcium	ppm	ASTM D5185m	1070	1063	1227	1130
Phosphorus	ppm	ASTM D5185m	1150	931	1052	979
Zinc	ppm	ASTM D5185m	1270	1193	1375	1220
Sulfur	ppm	ASTM D5185m	2060	3008	3406	2843
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	6
Sodium	ppm	ASTM D5185m		5	6	3
Potassium	ppm	ASTM D5185m	>20	<1	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624		8.1	8.3	7.9
Sulfation	Abs/.1mm	*ASTM D7415		18.9	20.6	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	16.5	15.3
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	7.5	7.8
	ing NOI /y	A0110102030	0.0	1.1	1.0	1.0



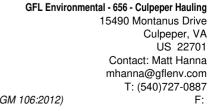
OIL ANALYSIS REPORT





	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
4/23 -	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jun 14/23	Ödor	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	history2
		cSt	ASTM D445	15.4	13.5	13.6	13.6
	GRAPHS						
	Ferrous Alloys						
2	45 40						
Jun14/23	35 - nickel						
٦٢	30						
	₫ ²⁵ 20						
	15		-				
		1					
	5						
	5	The Local Division of					
	0	3/22		98/23			
	and the second s	Jul13/22	Uecs0/22	Sep 8/23			
	May 1971			Sep 8/23			
	May 1972 May 1972 Mon-ferrous Metal			Sep 8/23			
	Non-ferrous Metal			Sep 8/23			
	0 1271 127			Sep 8/23			
	Non-ferrous Metal			Sep 8/23			
	0 1271 127			Sep 8/23			
	Non-ferrous Metal			Sep8123			
	Non-ferrous Metal			Sep8/23			
	Non-ferrous Metal			Sep8/23			
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep 0/23			
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep0123			
	May 19/212 May 19	S		Sep 0/23			
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep8/23	Base Number		
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep8/23	Base Number		
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep10/23			
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep10/23			
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep10/23			
	Non-ferrous Metal	S	Uec:0/22 Mar14/23	Sep10/23			
	Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal 0 12761/left 0 0 0 0 0 0 0 0 0 0 0 0 0	S	Uec:0/22 Mar14/23	Sep10/23 Sep			
	Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal 0 12761/kew Viscosity @ 100°C	S	Uec:0/22 Mar14/23	Sep0123 Ber (mg KOH(6) 0.01			
	Non-ferrous Metal	S	DecJU/22 UecJU/22 UecJU/22 UecJU/22 UecJU/22 UecJU/22 UecJU/22 UecJU/22 UecJU/22 U/22 U/22 U/22 U/22 U/22 U/22 U/22	EZ/0das EZ/	Base		
	Non-ferrous Metall Non-ferrous M	S	Uec:0/22 Mar14/23	EZ/QddsS 10.0 (b)HQX bu) aquir() 8.0 (b)HQX bu) aquir() 8.0 (b)HQX bu) aquir() 8.0 (b)HQX bu) aquir() 8.0 (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)		Apri2222	Mari 4/23





Unique Number : 10643683

Test Package : FLEET

: GFL0061998

: 05947724

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Received

Diagnosed

Diagnostician : Wes Davis

: 12 Sep 2023

: 13 Sep 2023

Sample No.

Lab Number

Certificate L2367

Page 2 of 2