

OIL ANALYSIS REPORT

Sample Rating Trend



GFL0098421

13 Nov 2023

5870

5870

Changed

NORMAL

<1.0

NEG

NEG

20

<1

<1

<1

<1

2

0

2

0

0

0

0

GFL0089493

14 Aug 2023

Changed

NORMAL

<1.0

NEG

NEG

19

<1

<1

0

2

<1

3

<1

<1

0

0

1

5314

0

GFL0108418

06 Feb 2024

6434

6434

Changed

NORMAL

<1.0

NEG

NEG

21

2

<1

<1

0

1

<1

3

<1

0

<1

10

18.4

7.5



Recommendation

Contamination

Fluid Condition

Wear

oil

Component **Diesel Engine** Fluic

Machine Io 710034

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

SAMPLE INFORMATION method Sample Number **Client Info** Resample at the next service interval to monitor. Sample Date Client Info Machine Age hrs Client Info All component wear rates are normal. Oil Age hrs Client Info Oil Changed **Client Info** Sample Status There is no indication of any contamination in the CONTAMINATION Fuel >5 WC Method The BN result indicates that there is suitable Water WC Method >0.2 alkalinity remaining in the oil. The condition of the oil is suitable for further service. Glycol WC Method WEAR METALS >80 Iron ppm ASTM D5185m ASTM D5185m >5 Chromium ppm Nickel ppm ASTM D5185m >2 Titanium ppm ASTM D5185m Silver ASTM D5185m >3 ppm Aluminum >30 ppm ASTM D5185m Lead ASTM D5185m >30 ppm Copper ppm ASTM D5185m >150 Tin ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m Cadmium ASTM D5185m ppm ADDITIVES Boron mag ASTM D5185m 0 Barium ASTM D5185m 0 ppm Molybdenum ASTM D5185m 60 ppm ASTM D5185m 0 Manganese ppm

Oxidation



*ASTM D7414

Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.8

>25

16.9

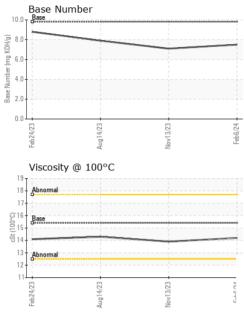
7.9

18.8

7.1



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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.9	14.3
GRAPHS						
Ferrous Alloys						
iron						
20 - nickel						
15 E						
الم 10						
5 -						
		23	24			
Feb24/23 Aug14/23		Nov13/23	Feb6/24			
Non-ferrous Metal	S	~				
10 copper						
8 - Head						
u dd						
4						
2						
23 Z3		23	24			
Feb24/23 Aug14/23		Nov13/23	Feb6/24			
∝ ∡ Viscosity @ 100°C		2		_		
¹⁹ T			10	Base Numbe	r:	
18 - Abnormal		1	1			
17-			(B) 8.	0		1
© ¹⁶ Base			.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0		1
016 Base 15 3 14			j 0. ju			
53 14			quinn 4.	0		
13 - Abnormal			ase 0			
12			° 2.	0		
11		-				
Feb24/23 Aug14/23		Nov13/23	Feb6/24	Feb24/23	Aug14/23	N0V13/23
Feb		Nov	<u>a</u>	Feb	Aug	NON
WearCheck LIGA ED	1 Madicor		NC 27512		nvironmental - 9 [.]	18 - Hartland
: WearCheck USA - 50 : GFL0108418	Receiv		9 Feb 2024			Industrial Dr
	Tested		2 Feb 2024		000 L	Hartland,
: 06085257						
: 10872702	Diagn	osed : 12	2 Feb 2024 - W	Ves Davis		US 530
: 06085257 : 10872702 : FLEET t, contact Customer Servi	_			Ves Davis		US 530 ct: David McC all@gflenv.co

