

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2524 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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.

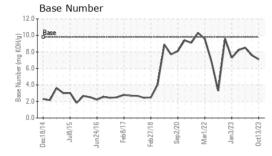
Fluid Condition

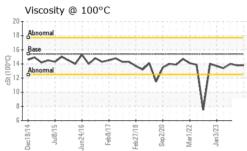
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info GFL0080553 GFL0080579 GFL008057 GFL00	inged inged itMAL history2 1.0 EG history2	
Sample Date Client Info 13 Oct 2023 04 Aug 2023 21 June Machine Age hrs Client Info 79952	un 2023 52 62 nged MAL history2 1.0 EG history2	
Machine Age hrs Client Info 79952	isign in the state of the state	
Oil Age hrs Client Info 79952	inged inged itMAL history2 1.0 EG history2	
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Fuel WC Method >3.0 <1.0	1.0 EG history2	
Glycol WC Method NEG NEG NI WEAR METALS method limit/base current history1 Iron ppm ASTM D5185m >165 15 15 25 Chromium ppm ASTM D5185m >5 <1 <1 1 1 Nickel ppm ASTM D5185m >4 <1 <1 <1 <1 Titanium ppm ASTM D5185m >2 0 0 <1 0 Silver ppm ASTM D5185m >2 0 1 1 1 Aluminum ppm ASTM D5185m >20 0 1 1 1 Lead ppm ASTM D5185m >150 2 <1 <1 <1	EG history2	
WEAR METALS method limit/base current history1 Iron ppm ASTM D5185m >165 15 15 25 Chromium ppm ASTM D5185m >5 <1 <1 1 Nickel ppm ASTM D5185m >4 <1 <1 <1 Titanium ppm ASTM D5185m >2 0 0 <1 Silver ppm ASTM D5185m >2 0 1 1 Aluminum ppm ASTM D5185m >20 0 1 1 Lead ppm ASTM D5185m >150 2 <1 <1	history2	
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Aluminum ppm ASTM D5185m >20 0 1 1 Lead ppm ASTM D5185m >150 2 <1		
Lead ppm ASTM D5185m >150 2 <1 <1		
Copper ppm ASTM D5185m >90 2 1 1		
Tin ppm ASTM D5185m >5 <1 <1 <1		
Vanadium ppm ASTM D5185m 0 0 0		
Cadmium ppm ASTM D5185m 0 0 0		
ADDITIVES method limit/base current history1	history2	
Boron ppm ASTM D5185m 0 2 3 4		
Barium ppm ASTM D5185m 0 2 0 0		
Molybdenum ppm ASTM D5185m 60 64 66 66	3	
Manganese ppm ASTM D5185m 0 <1 <1		
Magnesium ppm ASTM D5185m 1010 879 928 93	34	
Calcium ppm ASTM D5185m 1070 1076 1145 11	142	
Phosphorus ppm ASTM D5185m 1150 1028 1088 10)72	
Zinc ppm ASTM D5185m 1270 1181 1259 12	266	
Sulfur ppm ASTM D5185m 2060 2897 3238 32	239	
	history2	
CONTAMINANTS method limit/base current history1		
CONTAMINANTS method limit/base current history1 Silicon ppm ASTM D5185m >35 7 6 10)	
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Silicon ppm ASTM D5185m >35 7 6 10 Sodium ppm ASTM D5185m 3 0 1 Potassium ppm ASTM D5185m >20 7 2 2 INFRA-RED method limit/base current history1 I Soot % *ASTM D7844 >7.5 1 0.8 0.	history2	
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OIL ANALYSIS REPORT

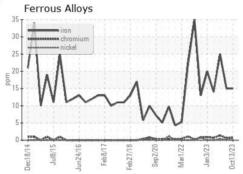


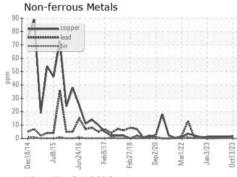


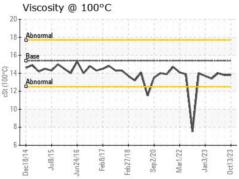
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

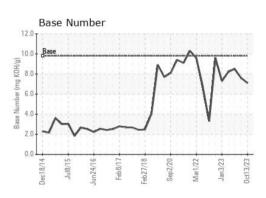
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: GFL0080553 : 05979478

: 10696773

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed : 17 Oct 2023

Diagnostician : Wes Davis

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.

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)