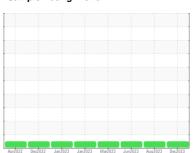


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 221039 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

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

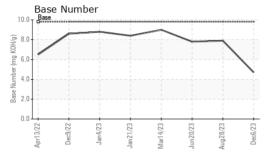
Fluid Condition

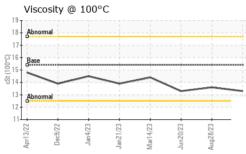
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Date	CAMPLE INCO			11	23 Mar2023 Jun2023 Aug2023		و المالية
Sample Date		RMATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 600	Sample Number		Client Info		GFL0092558	GFL0092571	GFL0081565
Oil Age hrs Client Info 600 600 600 600 Oil Changed Sample Status Normal 1.0 4.0 1.0 </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>06 Dec 2023</th> <th>28 Aug 2023</th> <th>20 Jun 2023</th>	Sample Date		Client Info		06 Dec 2023	28 Aug 2023	20 Jun 2023
Oil Changed Sample Status Client Info Changed NORMAL Changed NORMAL Oil Added NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Machine Age	hrs	Client Info		8601	7890	7444
NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 history2 variety history2 NEG NEG	Oil Age	hrs	Client Info		600	600	600
Fuel	Oil Changed		Client Info		Changed	Changed	Oil Added
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >80 33 10 13 Chromium ppm ASTM D5185m >5 1 0 <1 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >30 0 0 0 Silver ppm ASTM D5185m >30 0 2 4 Lead ppm ASTM D5185m >30 0 2 -1 Copper ppm ASTM D5185m >5 0 0 0 Cadmium ppm ASTM D5185m >5 0 0 0 ADDITIVES method limit/base current history1 history2 Boro	CONTAMINA	TION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Irron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >5 1 0 <1	WEAR META	LS	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>80	33	10	13
Nickel	Chromium	ppm	ASTM D5185m	>5	1	0	<1
Silver	Nickel		ASTM D5185m	>2	0	0	0
Silver	Titanium		ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m >30 6 2 4 Lead ppm ASTM D5185m >30 0 2 <1	Silver			>3			
Lead	Aluminum	- ' '		>30			4
Copper ppm ASTM D5185m >150 1 0 <1 Tin ppm ASTM D5185m >5 0 0 0 Vanadium ppm ASTM D5185m <1							
Tin							
Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 3 <1 3 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 1010 836 900 903 Calcium ppm ASTM D5185m 1070 1031 1139 1089 Phosphorus ppm ASTM D5185m 1270 1158 1223 1236 Sulfur ppm ASTM D5185m 2060 2669 3505 3576 CONTAMINANTS method limit/base current history1							
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Sulfation Abs/.1mm *ASTM D7415 >30 29.6 19.9 22.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.0 15.4 17.4							
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 26.0 15.4 17.4							
Oxidation Abs/.1mm *ASTM D7414 >25 26.0 15.4 17.4			^ASTM D7415	>30	29.6	19.9	22.2
	FLUID DEGRA	ADATION	method	limit/base		history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.8 4.7 7.9 7.8	Oxidation	Abs/.1mm	*ASTM D7414	>25		15.4	17.4
	Base Number (BN	mg KOH/g	ASTM D2896	9.8	4.7	7.9	7.8



OIL ANALYSIS REPORT

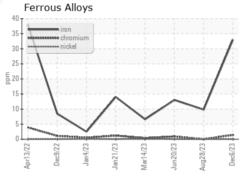


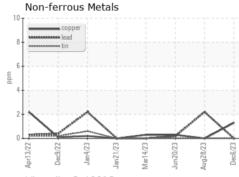


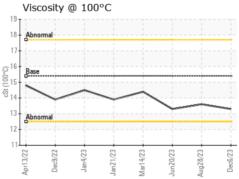
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

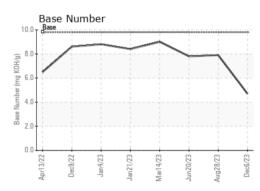
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.6	13.3	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10778290

: 06028499

: GFL0092558 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023

Diagnosed : 10 Dec 2023 Diagnostician : Don Baldridge GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL US 32824

Contact: DAWN WALLACE

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.

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

T:

F: