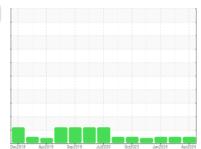


OIL ANALYSIS REPORT



Sample Rating Trend







Machine Id **427081-402333**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

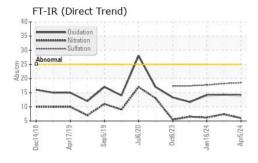
Fluid Condition

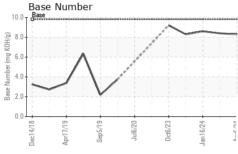
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

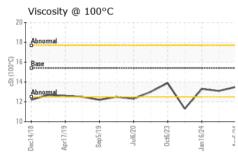
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0112230	GFL0112217	GFL0098725	
Sample Date		Client Info		05 Apr 2024	15 Mar 2024	16 Jan 2024	
Machine Age	hrs	Client Info		990	9850	9505	
Oil Age	hrs	Client Info		150	600	150	
Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
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	>120	7	11	5	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>5	2	2	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	4	2	
Lead	ppm	ASTM D5185m	>40	1	<1	0	
Copper	ppm	ASTM D5185m	>330	2	3	1	
Tin	ppm	ASTM D5185m	>15	2	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	7	7	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	55	53	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	978	931	983	
Calcium	ppm	ASTM D5185m	1070	1117	1103	1027	
Phosphorus	ppm	ASTM D5185m	1150	1056	1022	1072	
Zinc	ppm	ASTM D5185m	1270	1281	1227	1244	
Sulfur	ppm	ASTM D5185m	2060	3481	3366	3235	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	8	11	7	
Sodium	ppm	ASTM D5185m		4	4	3	
Potassium	ppm	ASTM D5185m	>20	2	4	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.0	7.4	6.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.2	17.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.3	14.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.4	8.6	

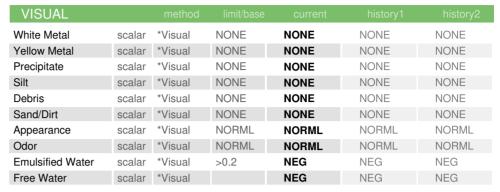


OIL ANALYSIS REPORT



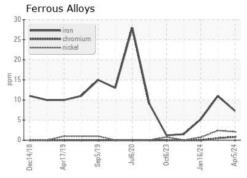


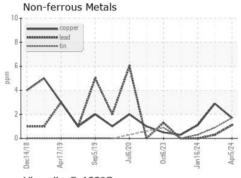


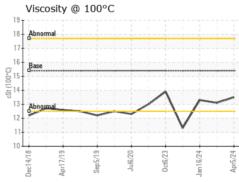


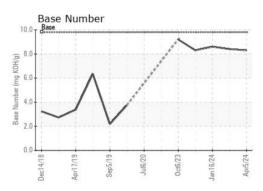
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.1	13.3

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0112230 Lab Number : 06143659

Unique Number : 10968467 Test Package : FLEET

Received : 09 Apr 2024 **Tested** : 10 Apr 2024 Diagnosed

: 10 Apr 2024 - Wes Davis

GFL Environmental - 829 - Wilco Hauling 5054 Highway HH

Hartville, MO US 65667

Contact: James Jones james.jones@gflenv.com T: (417)349-5006

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

 st - 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)