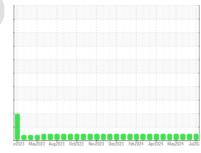


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 913179 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

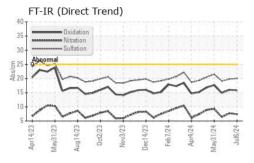
Fluid Condition

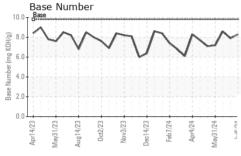
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

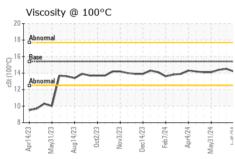
SAMPLE INFOR Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Water	hrs hrs	method Client Info Client Info Client Info Client Info Client Info	limit/base	current GFL0128576 06 Jul 2024 3911	history1 GFL0122994 28 Jun 2024 3799	history2 GFL0123003 20 Jun 2024		
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT	hrs	Client Info Client Info Client Info		06 Jul 2024	28 Jun 2024	20 Jun 2024		
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT	hrs	Client Info Client Info						
Machine Age Oil Age Oil Changed Sample Status CONTAMINAT	hrs	Client Info		3011	3700			
Oil Age Oil Changed Sample Status CONTAMINAT				3311	0/33	3783		
Sample Status CONTAMINAT Fuel		Client Info		0	0	0		
CONTAMINAT Fuel				Changed	Changed	Changed		
Fuel	101			NORMAL	NORMAL	NORMAL		
	ION	method	limit/base	current	history1	history2		
Water		WC Method	>5	<1.0	<1.0	<1.0		
		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	5	6	3		
Chromium	ppm	ASTM D5185m	>20	0	0	0		
Nickel	ppm	ASTM D5185m	>4	0	<1	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>3	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2		
Lead	ppm	ASTM D5185m	>40	0	0	0		
Copper	ppm	ASTM D5185m	>330	<1	0	<1		
Tin	ppm	ASTM D5185m	>15	0	0	0		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm		0	1	5	8		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m	60	59	60	58		
Manganese	ppm	ASTM D5185m		0	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	927	1031	984		
Calcium	ppm	ASTM D5185m	1070	1099	1111	1035		
Phosphorus	ppm	ASTM D5185m	1150	1016	1059	1040		
Zinc	ppm	ASTM D5185m	1270	1190	1293	1258		
Sulfur	ppm	ASTM D5185m	2060	3295	3566	3579		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	5	4		
Sodium	ppm	ASTM D5185m		5	3	3		
Potassium	ppm	ASTM D5185m	>20	<1	2	3		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.7	6.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.8	19.1		
	FLUID DEGRADATION method limit/base current history1 history2							
	NOITAC	method	limit/base	current	history1	history2		
	Abs/.1mm	method *ASTM D7414	limit/base	current 15.8	history1 16.0	history2 14.9		



OIL ANALYSIS REPORT



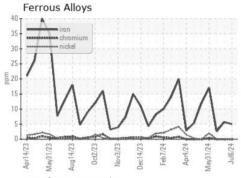


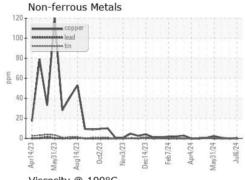


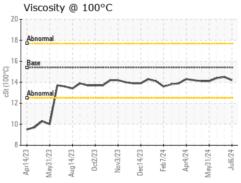
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

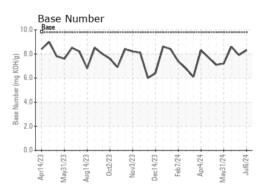
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.5	14.4

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11123110 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0128576 Lab Number : 06234276

Received : 11 Jul 2024 **Tested** : 12 Jul 2024 Diagnosed : 12 Jul 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling 4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Koenig bkoenig@gflenv.com

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: