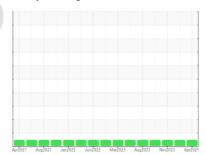


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 729013-1260 Diesel Engine

PETRO CANADA DURON SHP 15W40 (24 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

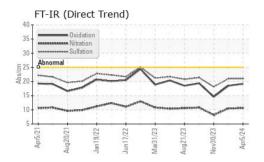
Fluid Condition

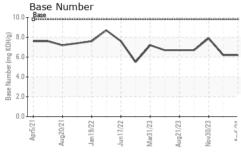
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

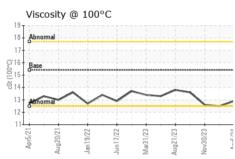
SAMPLE INFORM	4ATION	method	limit/base	ourront	history1	history2	
	ATION		IIIIIIVDase		•		
Sample Number		Client Info		GFL0110323	GFL0102772	GFL0102799	
Sample Date		Client Info		05 Apr 2024	11 Jan 2024	30 Nov 2023	
Machine Age	hrs	Client Info		15185	14587	14272	
Oil Age	hrs	Client Info		598	606	13981	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>80	19	20	10	
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	1	2	3	
Lead	ppm	ASTM D5185m	>30	0	0	0	
Copper	ppm	ASTM D5185m	>150	<1	1	<1	
Tin	ppm	ASTM D5185m	>5	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	6	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	61	60	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	913	883	879	
Calcium	ppm	ASTM D5185m	1070	1129	1085	1047	
Phosphorus	ppm	ASTM D5185m	1150	1000	963	1027	
Zinc	ppm	ASTM D5185m	1270	1227	1175	1227	
Sulfur	ppm	ASTM D5185m	2060	3259	2756	3007	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>20	2	4	6	
Sodium	ppm	ASTM D5185m		6	5	4	
Potassium	ppm	ASTM D5185m	>20	1	3	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.5	8.2	
Sulfation	Abs/.1mm	*ASTM D7415		21.0	21.0	18.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	18.5	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.2	6.2	7.9	
(((()	99		3.0	V. -	J		



OIL ANALYSIS REPORT



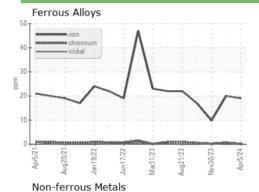




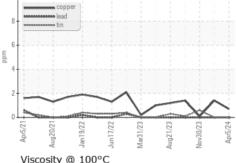
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

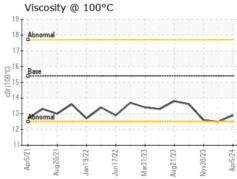
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.5	12.6

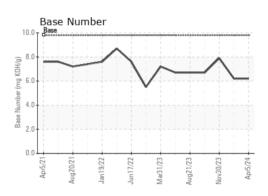
GRAPHS















Sample No.

Lab Number : 06142113 Unique Number : 10966921

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0110323 Received

: 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed : 09 Apr 2024 - Wes Davis

GFL Environmental - 622 - Traverse City Hauling 160 Hughes Dr Traverse City, MI

US 49686

Contact: GARY BREWER

Test Package : FLEET Certificate 12367 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: