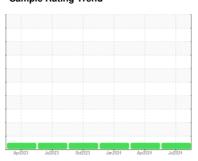


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
828098
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

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.

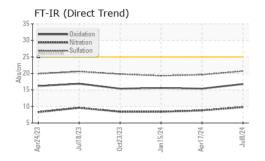
Fluid Condition

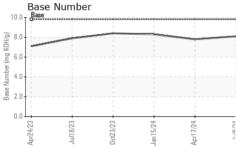
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

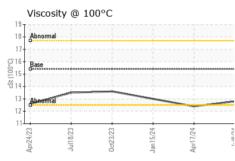
QIS)		Apr2023	Jul2023 Oct2023	Janž024 Aprž024	Jul2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0110771	GFL0110789	GFL0092875			
Sample Date		Client Info		08 Jul 2024	17 Apr 2024	15 Jan 2024			
Machine Age	mls	Client Info		97853	89947	81062			
Oil Age	mls	Client Info		7906	8885	7485			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	1.4	<1.0			
Water		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	>110	17	15	12			
Chromium	ppm	ASTM D5185m	>4	<1	1	<1			
Nickel	ppm	ASTM D5185m	>2	0	<1	0			
Titanium	ppm	ASTM D5185m		<1	<1	0			
Silver	ppm	ASTM D5185m	>2	0	<1	0			
Aluminum	ppm	ASTM D5185m	>25	9	6	4			
Lead	ppm	ASTM D5185m	>45	0	0	0			
Copper	ppm	ASTM D5185m	>85	1	1	<1			
Tin	ppm	ASTM D5185m	>4	0	<1	0			
Vanadium	ppm	ASTM D5185m		<1	<1	<1			
Cadmium	ppm	ASTM D5185m		0	<1	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	5	16	5			
Barium	ppm	ASTM D5185m		0	<1	0			
Molybdenum	ppm	ASTM D5185m	60	58	52	54			
Manganese	ppm	ASTM D5185m		0	<1	0			
Magnesium	ppm	ASTM D5185m	1010	888	877	917			
Calcium	ppm	ASTM D5185m		1191	1210	1049			
Phosphorus	ppm	ASTM D5185m	1150	1015	918	1017			
Zinc	ppm	ASTM D5185m	1270	1201	1192	1173			
Sulfur	ppm	ASTM D5185m		2620	2940	2906			
CONTAMINAN		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	5	5	5			
Sodium	ppm	ASTM D5185m		2	2	<1			
Potassium	ppm	ASTM D5185m		15	6	5			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.6			
Nitration	Abs/cm	*ASTM D7624		9.8	8.8	8.4			
Sulfation	Abs/.1mm	*ASTM D7415		20.7	19.6	19.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	15.4	15.6			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.8	8.3			

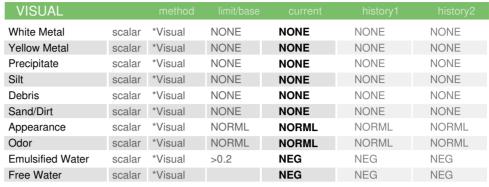


OIL ANALYSIS REPORT



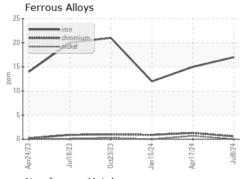


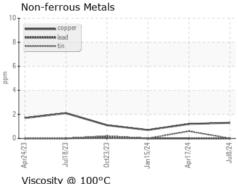


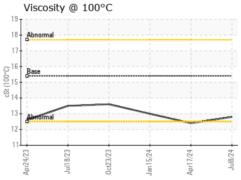


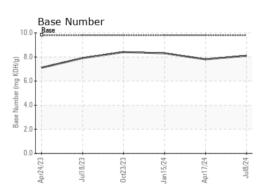
FLUID PROPI	EHILO	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.4	13.0

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06234693

: GFL0110771 Unique Number : 11123527 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024

Tested : 15 Jul 2024 Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: Service Manager

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)

Report Id: GFL411 [WUSCAR] 06234693 (Generated: 07/15/2024 08:40:25) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

F: