

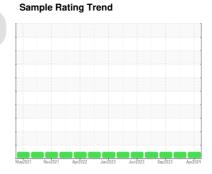
OIL ANALYSIS REPORT



Machine Id **427085-402416** Component

Diesel Engine

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

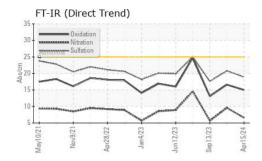
Fluid Condition

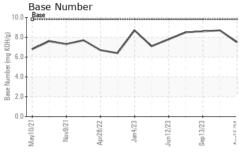
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

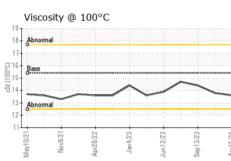
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092567	GFL0092582	GFL0092573
Sample Date		Client Info		15 Apr 2024	03 Jan 2024	13 Sep 2023
Machine Age	hrs	Client Info		18797	19149	18541
Oil Age	hrs	Client Info		600	608	600
Oil Changed		Client Info		Changed	Changed	Changed
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 METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	<1	11	3
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	1
Lead		ASTM D5185m	>40	0	3	<1
	ppm		>330	0	<1	<1
Copper	ppm			-		
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	62	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	908	901	971
Calcium	ppm	ASTM D5185m	1070	986	1108	1199
Phosphorus	ppm	ASTM D5185m	1150	1029	1042	1082
Zinc	ppm	ASTM D5185m	1270	1213	1276	1288
Sulfur	ppm	ASTM D5185m	2060	3334	3003	3827
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	5
Sodium	ppm	ASTM D5185m		2	5	2
Potassium	ppm	ASTM D5185m	>20	0	7	3
INFRA-RED		method	limit/base	current	history1	history2
II II I I I I I I I I I I I I I I I I			4		0.5	0.1
Soot %	%	*ASTM D7844	>4	0.2	0.5	0.1
	% Abs/cm	*ASTM D7844 *ASTM D7624	>4	0.2 6.6	9.6	5.7
Soot %						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	6.6	9.6	5.7
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	6.6 18.9	9.6 20.8	5.7 17.6

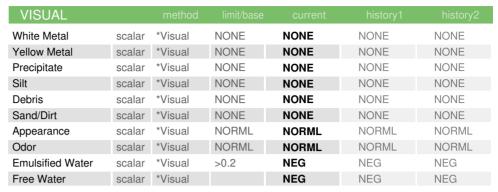


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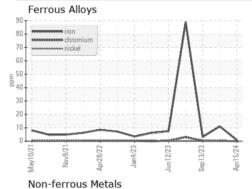


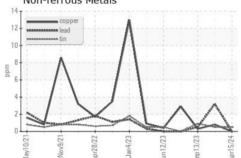


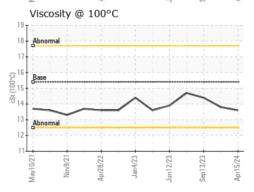


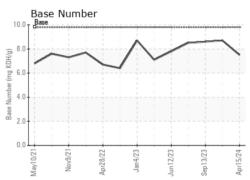
FLUID PROPI	EKITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	14.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0092567 Lab Number : 06160158 Unique Number : 10995581 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024

Tested : 29 Apr 2024 Diagnosed : 29 Apr 2024 - Wes Davis

GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL US 32824

Contact: Brian Bou Diaz bboudiaz@gflenv.com T:

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)

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