

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
713014
Component
Diesel Engine
Fluid

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

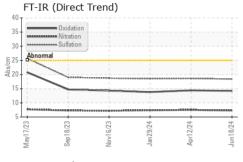
Fluid Condition

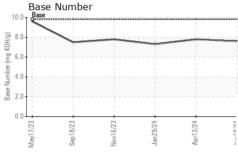
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

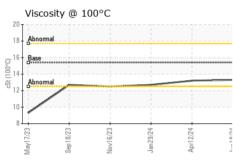
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0124433	GFL0096975	GFL0096943	
Sample Date		Client Info		18 Jun 2024	12 Apr 2024	29 Jan 2024	
Machine Age	hrs	Client Info		3451	2936	2949	
Oil Age	hrs	Client Info		502	2700	1226	
Oil Changed		Client Info		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		NEG	NEG	NEG	
Glycol		WC Method	7 U.L	NEG	NEG	NEG	
WEAR METAL	0		limit/bass				
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	11	13	10	
Chromium	ppm	ASTM D5185m		<1	1	<1	
Nickel	ppm	ASTM D5185m	>5	2	2	1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	3	3	3	
Lead	ppm	ASTM D5185m	>40	<1	1	0	
Copper	ppm	ASTM D5185m	>330	2	2	2	
Tin	ppm	ASTM D5185m	>15	1	2	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	14	11	
Barium	ppm	ASTM D5185m	0	1	<1	1	
Molybdenum	ppm	ASTM D5185m	60	66	66	61	
Manganese	ppm	ASTM D5185m	0	<1	2	<1	
Magnesium	ppm	ASTM D5185m	1010	923	935	820	
Calcium	ppm	ASTM D5185m	1070	1088	1151	1029	
Phosphorus	ppm	ASTM D5185m	1150	992	1151	954	
Zinc	ppm	ASTM D5185m	1270	1209	1289	1128	
Sulfur	ppm	ASTM D5185m	2060	2888	3632	2670	
CONTAMINANTS method			limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	5	4	
Sodium	ppm	ASTM D5185m		<1	2	<1	
Potassium	ppm	ASTM D5185m	>20	6	5	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.5	7.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.6	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.4	13.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.8	7.3	
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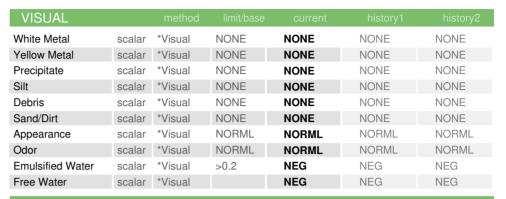


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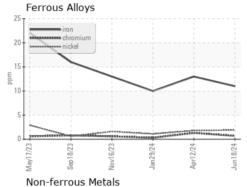


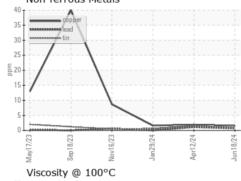


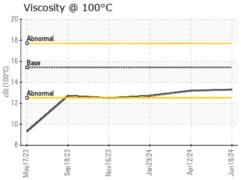


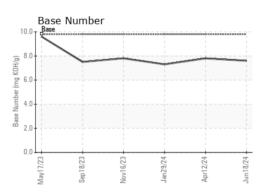
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.2	12.7

GRAPHS













Laboratory Sample No.

: GFL0124433 Lab Number : 06217867 Unique Number : 11096064

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024

Tested : 25 Jun 2024 Diagnosed : 25 Jun 2024 - Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

catherine.anastasio@wearcheck.com T:

Contact: TECHNICIAN ACCOUNT

 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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