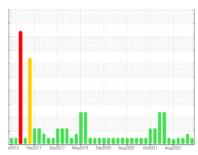


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10534 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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

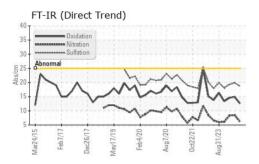
Fluid Condition

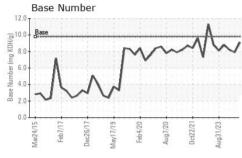
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

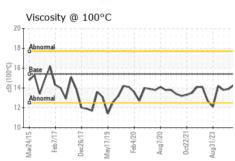
GAL)							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0072169	GFL0072069	GFL0072068	
Sample Date		Client Info		17 Jun 2024	14 Mar 2024	08 Mar 2024	
Machine Age	hrs	Client Info		23918	23289	22470	
Oil Age	hrs	Client Info		640	600	0	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	ABNORMAL	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	
Iron	ppm	ASTM D5185m	>75	31	66	52	
Chromium	ppm	ASTM D5185m	>5	<1	2	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	6	6	5	
Lead	ppm	ASTM D5185m	>25	0	0	<1	
Copper	ppm	ASTM D5185m	>100	6	<u>170</u>	40	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	7	2	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	68	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	934	956	929	
Calcium	ppm	ASTM D5185m	1070	1060	1130	1045	
Phosphorus	ppm	ASTM D5185m	1150	1045	978	1011	
Zinc	ppm	ASTM D5185m	1270	1234	1252	1227	
Sulfur	ppm	ASTM D5185m	2060	3524	2844	3219	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	9	11	11	
Sodium	ppm	ASTM D5185m		4	7	8	
Potassium	ppm	ASTM D5185m	>20	8	4	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.9	1.2	1.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.1	8.5	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.9	19.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	14.9	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	7.9	8.2	
_ acc . Idilloci (Di4)	9 1101119	. 10 . 111 DE000	5.0	J. 1		0.2	



OIL ANALYSIS REPORT



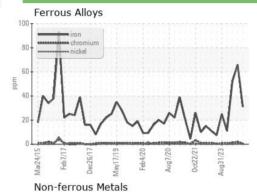


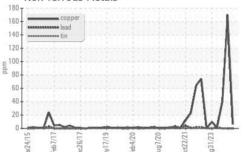


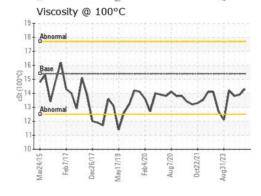
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

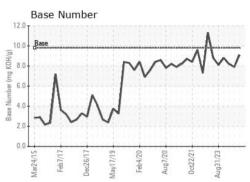
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.9	13.8

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0072169 Lab Number : 06214405 Unique Number : 11087269 Test Package : FLEET

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.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024

Tested : 20 Jun 2024 Diagnosed

: 20 Jun 2024 - Wes Davis

2097 Buchanan Highway Cedartown, GA US 30125

GFL Environmental - 094 - Cedartown

Contact: WILLIAM FOSTER william.foster@gflenv.com T: (800)207-6618

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)