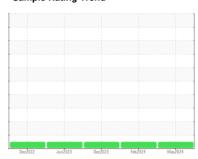


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 927052 Component Diesel Engine

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

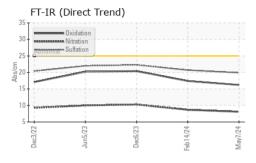
Fluid Condition

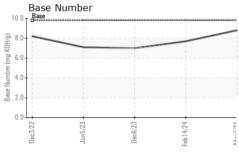
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

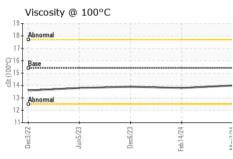
AAL)		Deczozz	JUN2023	Dec2023 Fe02024	may2021				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0113017	GFL0108420	GFL0098426			
Sample Date		Client Info		07 May 2024	14 Feb 2024	06 Dec 2023			
Machine Age	hrs	Client Info		17097	16703	16149			
Oil Age	hrs	Client Info		17097	16703	16149			
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	<1.0	<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	>110	6	13	28			
Chromium	ppm	ASTM D5185m	>4	<1	<1	1			
Nickel	ppm	ASTM D5185m	>2	0	0	<1			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	<1	1	2			
Lead	ppm	ASTM D5185m	>45	0	1	4			
Copper	ppm	ASTM D5185m	>85	0	1	2			
Tin	ppm	ASTM D5185m	>4	<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	0	2			
Barium	ppm	ASTM D5185m	0	1	3	12			
Molybdenum	ppm	ASTM D5185m	60	62	61	80			
Manganese	ppm	ASTM D5185m	0	<1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	1030	946	1272			
Calcium	ppm	ASTM D5185m	1070	1123	1066	1351			
Phosphorus	ppm	ASTM D5185m	1150	1158	1046	1264			
Zinc	ppm	ASTM D5185m	1270	1361	1208	1602			
Sulfur	ppm	ASTM D5185m	2060	3725	3200	3715			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>30	4	3	6			
Sodium	ppm	ASTM D5185m		3	0	6			
Potassium	ppm	ASTM D5185m	>20	<1	3	6			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.4			
Nitration	Abs/cm	*ASTM D7624		8.1	8.7	10.3			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.7	22.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.4	20.4			
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	7.7	7.0			
2430 Harribor (DIV)	mg nong	. IOTHI DEGGO	5.0	0.0	7.77	7.0			

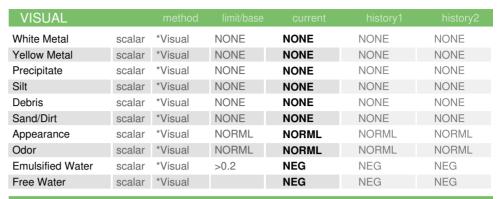


OIL ANALYSIS REPORT



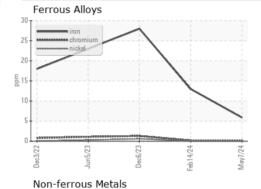


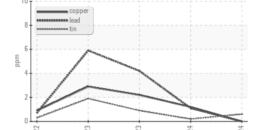


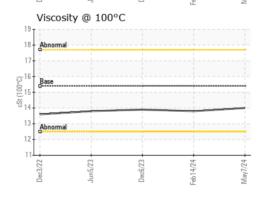


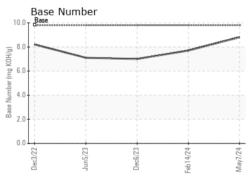
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	13.9	

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0113017 Lab Number : 06178391 Unique Number : 11029717

Received **Tested** Diagnosed

: 14 May 2024 : 14 May 2024 : 14 May 2024 - Wes Davis

GFL Environmental - 918 - Hartland HC 630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)