

412054 - DIESEL ENGINE

Sample No: GFL0111771

Oil Type: PETRO CANADA DURON SHP 10W30

SAMPLE INFORMATION

Sample Number	GFL0111771	GFL0039064	GFL0081962	---
Sample Date	20 Apr 2024	26 Sep 2023	08 Jul 2023	---
Machine Hours	4417	3435	2942	---
Oil Hours	600	480	450	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

GFL Environmental - 557 - Edson

6615 - 4th Ave,

Edson, AB

CA T7E 1M5

Contact: GFL Tech

wcgfldemo@gmail.com

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OIL CONDITION

Visc @ 100°C	cSt	11.3	11.4	11.3	---
Oxidation (PA)	%	59	60	59	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.1	---
Nitration (PA)	%	59	59	58	---
Sulfation (PA)	%	52	53	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	2	3	3	---
Sodium	ppm	2	2	2	---
Potassium	ppm	9	20	15	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	10	11	10	---
Copper	ppm	7	11	18	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	7	12	10	---
Chromium	ppm	1	2	2	---
Molybdenum	ppm	61	61	62	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1063	1056	1068	---
Magnesium	ppm	978	975	994	---
Zinc	ppm	1161	1188	1205	---
Phosphorus	ppm	973	985	993	---
Barium	ppm	0	0	0	---
Boron	ppm	4	<1	1	---

Depot: GFL557

Unique No: 5773882

Signed: Wes Davis

Report Date: 02 May 2024

Contact/Location: GFL Tech - GFL557

GRAPHS

