

OIL ANALYSIS REPORT



GORDON FERGUSON DILLON ONAN L190692066 - CENTER GENSET

Sample No: VPA059281

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA059281	VPA035131	---	---
Sample Date	14 Feb 2024	01 Nov 2021	---	---
Machine Hours	599	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.4	---	---
Base Number (BN)	mg KOH/g	8.3	---	---	---
Oxidation (PA)	%	47	65	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	43	68	---	---
Sulfation (PA)	%	45	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	15	---	---
Sodium	ppm	2	1	---	---
Potassium	ppm	<1	2	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	6	10	---	---
Copper	ppm	2	11	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	1	0	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	56	47	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1076	2027	---	---
Magnesium	ppm	937	523	---	---
Zinc	ppm	1246	1113	---	---
Phosphorus	ppm	1009	1009	---	---
Barium	ppm	0	4	---	---
Boron	ppm	2	58	---	---

Depot: VP794951
Unique No: 10884405
Signed: Don Baldrige
Report Date: 19 Feb 2024

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VOLVO PENTA

GRAPHS

