



CONSTRUCTION EQUIPMENT

9188 ALJON 30116 - DIESEL ENGINE



Sample No: VCP407896
Oil Type: CHEVRON 15W40
Job No: 9188



SAMPLE INFORMATION

Sample Number	VCP407896	VCP395158	VCP369057	VCP386425
Sample Date	24 Jun 2023	28 Feb 2023	14 Dec 2022	12 Oct 2022
Machine Hours	5062	4662	4234	3922
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.0	13.0	13.1
Base Number (BN)	mg KOH/g	7.5	7.7	8.7	8.3
Oxidation (PA)	%	63	62	68	68

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	66	63	66	69
Sulfation (PA)	%	61	60	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	6	5
Sodium	ppm	0	2	5	25
Potassium	ppm	4	<1	2	8

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 suitable for further service.

WEAR METALS

Iron	ppm	5	4	4	4
Copper	ppm	1	<1	5	1
Lead	ppm	1	0	<1	<1
Tin	ppm	<1	0	1	<1
Aluminum	ppm	2	2	3	3
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	74	78	93	93
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	2	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1614	1658	1601	1603
Magnesium	ppm	394	418	505	426
Zinc	ppm	1188	1169	1127	1074
Phosphorus	ppm	998	960	944	876
Barium	ppm	0	0	0	0
Boron	ppm	252	296	288	196

Depot: PLECLA
Unique No: 10552468
Signed: Wes Davis
Report Date: 13 Jul 2023



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GRAPHS

