

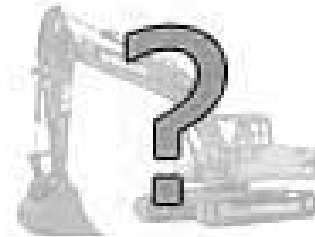


CONSTRUCTION EQUIPMENT

10165 TOLSON ALJON 30131 - DIESEL ENGINE



Sample No: VCP409475
Oil Type: CHEVRON 15W40
Job No: 10165 TOLSON



SAMPLE INFORMATION

Sample Number	VCP409475	VCP423099	VCP426080	VCP412597
Sample Date	08 Jan 2024	06 Nov 2023	20 Sep 2023	24 Jul 2023
Machine Hours	2490	2202	1938	1665
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	12.4	12.6	12.7	12.7
Base Number (BN)	mg KOH/g	7.2	7.6	7.5	7.7
Oxidation (PA)	%	61	63	64	60

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	54	47	47
Sulfation (PA)	%	58	59	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	10	10
Sodium	ppm	<1	<1	1	2
Potassium	ppm	1	<1	2	4



WEAR METALS

Iron	ppm	2	4	4	4
Copper	ppm	0	<1	1	<1
Lead	ppm	<1	0	9	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	85	81	87	88
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	2	3	3
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1368	1408	1415	1544
Magnesium	ppm	395	407	406	445
Zinc	ppm	1260	1303	1232	1400
Phosphorus	ppm	990	1034	994	1134
Barium	ppm	0	0	0	0
Boron	ppm	379	400	524	466

Depot: PLECLA
Unique No: 10823581
Signed: Wes Davis
Report Date: 11 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

