



CONSTRUCTION EQUIPMENT

9874 TOLSON ALJON 30131 - DIESEL ENGINE



Sample No: VCP423099
Oil Type: CHEVRON 15W40
Job No: 9874 TOLSON



SAMPLE INFORMATION

Sample Number	VCP423099	VCP426080	VCP412597	VCP408895
Sample Date	06 Nov 2023	20 Sep 2023	24 Jul 2023	01 Jun 2023
Machine Hours	2202	1938	1665	1445
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PLEASANT EXCAVATING COMPANY INC
 24024 FREDERICK ROAD
 CLARKSBURG, MD
 US 20871
 Contact: H TRENT
 HTRENT@PLEASANTS.ORG
 T: (301)252-5635
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.7	12.6
Base Number (BN)	mg KOH/g	7.6	7.5	7.7	7.3
Oxidation (PA)	%	63	64	60	68



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	54	47	47	53
Sulfation (PA)	%	59	57	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	10	10	7
Sodium	ppm	<1	1	2	1
Potassium	ppm	<1	2	4	2



WEAR METALS

Iron	ppm	4	4	4	6
Copper	ppm	<1	1	<1	0
Lead	ppm	0	9	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	<1	<1	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	81	87	88	94
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	2	3	3	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1408	1415	1544	1458
Magnesium	ppm	407	406	445	443
Zinc	ppm	1303	1232	1400	1326
Phosphorus	ppm	1034	994	1134	1076
Barium	ppm	0	0	0	0
Boron	ppm	400	524	466	421

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.

Depot: PLECLA
Unique No: 10736469
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

