



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314321 - DIESEL ENGINE



Sample No: VCP405269
Oil Type: CHEVRON URSA SUPER PLUS EC 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP405269	VCP405268	VCP309693	VCP309686
Sample Date	30 Jan 2024	18 Aug 2023	21 Mar 2023	01 Jul 2022
Machine Hours	3036	2609	2109	1511
Oil Hours	427	500	0	516
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

CITY OF WISCONSIN RAPIDS

444 W GRAND AVE
 WISCONSIN RAPIDS, WI
 US 54495

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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.0	11.6	12.1
Base Number (BN)	mg KOH/g	6.2	5.7	5.4	6.5
Oxidation (PA)	%	59	60	61	64

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)	%	63	61	63	62
Sulfation (PA)	%	59	59	62	63
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	1.4	2.2	<1.0
Silicon	ppm	9	6	5	5
Sodium	ppm	2	2	3	3
Potassium	ppm	0	3	<1	<1



WEAR METALS

Iron	ppm	5	6	6	6
Copper	ppm	<1	2	4	18
Lead	ppm	0	2	<1	1
Tin	ppm	<1	1	<1	1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	78	86	88	84
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1348	1516	1498	1486
Magnesium	ppm	383	424	447	411
Zinc	ppm	1237	1307	1337	1300
Phosphorus	ppm	1052	1047	1083	1047
Barium	ppm	0	0	0	0
Boron	ppm	314	304	248	307

Depot: CITWIS
Unique No: 10870366
Signed: Wes Davis
Report Date: 08 Feb 2024



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GRAPHS

