



CONSTRUCTION EQUIPMENT

SWO-063665 EPIROC TMG21 SEDO223 - DIESEL ENGINE



Sample No: VCP424048
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO-063665



SAMPLE INFORMATION

Sample Number	VCP424048	VCP408681	VCP410188	VCP380768
Sample Date	05 Jul 2023	17 May 2023	03 Apr 2023	18 Jan 2023
Machine Hours	3133	2865	2651	2404
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.5	12.8
Base Number (BN)	mg KOH/g	9.9	10.2	9.9	10.3
Oxidation (PA)	%	85	84	81	82



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	69	59	61	68
Sulfation (PA)	%	63	63	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	7	10
Sodium	ppm	2	<1	2	0
Potassium	ppm	1	1	0	0



WEAR METALS

Iron	ppm	5	4	4	3
Copper	ppm	2	2	2	3
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	<1	<1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	39	40	41	37
Nickel	ppm	<1	<1	0	0
Titanium	ppm	4	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1744	1570	1596	1656
Magnesium	ppm	484	475	489	520
Zinc	ppm	1075	1047	1031	1007
Phosphorus	ppm	852	882	863	855
Barium	ppm	0	0	0	0
Boron	ppm	32	36	39	40

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.

Depot: SAIBIR
Unique No: 10550563
Signed: Don Baldrige
Report Date: 12 Jul 2023



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GRAPHS

