



CONSTRUCTION EQUIPMENT

SWO-070465 EPIROC T45 AVO14A1117 - REAR LEFT FINAL DRIVE



Sample No: VCP454219
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWO-070465



SAMPLE INFORMATION

Sample Number	VCP454219	VCP418150	VCP402488	VCP253584
Sample Date	14 Mar 2024	24 Jul 2023	16 Mar 2023	25 Jun 2020
Machine Hours	1217	11559	10872	8983
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

WHITAKER CONTRACTING
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 F:



OIL CONDITION

Visc @ 40°C	cSt	291	262	287	286
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 128	24	51	19
Sodium	ppm	2	1	4	4
Potassium	ppm	0	1	3	5

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	461	96	175	125
Copper	ppm	▲ 85	10	20	31
Lead	ppm	0	0	0	0
Tin	ppm	4	<1	<1	0
Aluminum	ppm	5	4	10	2
Chromium	ppm	5	1	3	3
Molybdenum	ppm	4	5	<1	1
Nickel	ppm	1	0	<1	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	3	<1	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	121	113	120	153
Magnesium	ppm	22	25	11	4
Zinc	ppm	79	94	83	70
Phosphorus	ppm	1034	957	966	697
Barium	ppm	0	0	0	<1
Boron	ppm	126	155	130	28

Depot: WHIGUN
Unique No: 10939396
Signed: Don Baldrige
Report Date: 25 Mar 2024



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GRAPHS

