Sample No: VCP441810

Oil Type: DIESEL ENGINE OIL SAE 40

Job No: X59772

SAMPLE INFORMATION

Sample Number		VCP441810	VCP426016	---	---
Sample Date		18 Jun 2024	17 Nov 2023	---	---
Machine Hours		1863	522	---	---
Oil Hours		0	0	---	---
Oil Changed		N/A	Changed	---	---
Sample Status		ABNORMAL	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	13.0	11.2	---	---
Base Number (BN)	mg KOH/g	8.5	6.5	---	---
Oxidation (PA)	%	82	60	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.5	0.2	---	---
Nitration (PA)	%	73	78	---	---
Sulfation (PA)	%	64	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.5	---	---
Silicon	ppm	5	24	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	2	7	---	---

WEAR METALS

Iron	ppm	16	20	---	---
Copper	ppm	33	410	---	---
Lead	ppm	0	8	---	---
Tin	ppm	<1	3	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	0	1	---	---
Molybdenum	ppm	32	65	---	---
Nickel	ppm	<1	1	---	---
Titanium	ppm	0	1	---	---
Silver	ppm	<1	2	---	---
Manganese	ppm	<1	5	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1827	2373	---	---
Magnesium	ppm	438	0	---	---
Zinc	ppm	1180	1273	---	---
Phosphorus	ppm	998	992	---	---
Barium	ppm	0	0	---	---
Boron	ppm	34	69	---	---

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level has decreased, but is still abnormal. All other 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: SCOSAI
Unique No: 11111721
Signed: Don Baldridge
Report Date: 08 Jul 2024

GRAPHS

Iron (ppm)

Lead (ppm)

Aluminum (ppm)

Chromium (ppm)

⚠ Copper (ppm)

Silicon (ppm)

Viscosity @ 100°C

Base Number