



CONSTRUCTION EQUIPMENT

SPM503305 KOMATSU PC490LC A41339 - DIESEL ENGINE



Sample No: VCP383163
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM503305



SAMPLE INFORMATION

Sample Number	VCP383163	VCP05570339	VCP320082	VCP286032
Sample Date	30 Mar 2023	08 Jun 2022	01 Sep 2021	28 Sep 2020
Machine Hours	4320	3742	3027	2453
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

JOHN KENO & CO
 750 RICARD LN
 ELK GROVE VILLAGE, IL
 US 60007
 Contact: LUKAS DECKER
 ldecker@johnkeno.com
 T: (847)340-2432
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.4	14.3	13.4	13.3
Base Number (BN)	mg KOH/g	7.6	8.6	---	---
Oxidation (PA)	%	71	81	50	73

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 %	%	0.7	1	0.8	0.6
Nitration (PA)	%	89	102	82	77
Sulfation (PA)	%	56	67	55	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	6
Sodium	ppm	3	2	<1	3
Potassium	ppm	<1	0	<1	2



WEAR METALS

Iron	ppm	46	67	▲ 107	65
Copper	ppm	6	14	7	13
Lead	ppm	0	3	2	<1
Tin	ppm	<1	1	1	1
Aluminum	ppm	<1	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	55	62	22	57
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	1	2	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1143	1194	1996	1834
Magnesium	ppm	796	926	297	315
Zinc	ppm	948	1327	1140	1229
Phosphorus	ppm	865	1075	906	1010
Barium	ppm	0	0	0	<1
Boron	ppm	0	6	11	71

Depot: JOHELK
Unique No: 10440728
Signed: Don Baldrige
Report Date: 26 Apr 2023



CONSTRUCTION EQUIPMENT



GRAPHS

