



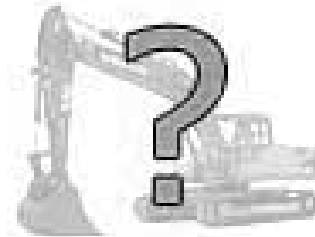
CONSTRUCTION EQUIPMENT

SOLORAIL LOGISTIQUE 8000389192

KONE CRANE SMV4531TC5 M11924 - DIESEL ENGINE



Sample No: VCP380153
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30
Job No: 8000389192



SAMPLE INFORMATION

Sample Number	VCP380153	VCP347427	VCP392415	VCP380151
Sample Date	06 Jan 2024	16 Dec 2023	02 Dec 2023	02 Jul 2023
Machine Hours	2701	2530	2855	1363
Oil Hours	0	0	500	500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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 1730 RUE DE L'HYDRO
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OIL CONDITION

Visc @ 100°C	cSt	10.1	10.6	11.1	9.7
Oxidation (PA)	%	82	79	82	79

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0.1	0
Nitration (PA)	%	58	47	68	58
Sulfation (PA)	%	61	61	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2.8	5.7	<1.0
Silicon	ppm	4	4	4	6
Sodium	ppm	2	2	2	1
Potassium	ppm	4	0	0	<1

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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	4	3	6	5
Copper	ppm	<1	<1	<1	11
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	2	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	36	38	38	46
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1615	1630	1559	1556
Magnesium	ppm	470	479	466	467
Zinc	ppm	1000	1035	1013	1022
Phosphorus	ppm	909	896	865	929
Barium	ppm	0	<1	<1	0
Boron	ppm	56	60	45	82

Depot: VOLVO0229
Unique No: 5709229
Signed: Wes Davis
Report Date: 11 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

