CONSTRUCTION EQUIPMENT SPM567536 KOMATSU PC290LC A25486 - DIESEL ENGINE

 Sample No:
 VCP404285

 Oil Type:
 DIESEL ENGINE OIL SAE 15W40

 Job No:
 SPM567536

VOLVO

SAMPLE INFORMATION           ample Number         VCP404285         VCP289717             ample Date         26 Jun 2023         09 Dec 2020             Machine Hours         5013         4402             Dil Hours         0         0             Dil Hours         0         0             Dil Changed         Changed         Changed             OIL CONDITION         NORMAL         NORMAL             Tisc @ 100°C         cSt         13.3         14.0             Oil CONDITION                Tisc @ 100°C         cSt         13.3         14.0             Oil CONDITION                Oil CONDITION         77               Oxidation (PA)         %         94         77             Oxidation (PA)         %         0.7	VOLVO				
ample Date       26 Jun 2023       09 Dec 2020           Machine Hours       5013       4402           Dil Hours       0       0           Dil Hours       Changed       0           Dil Changed       Changed       Changed           ample Status       NORMAL       NORMAL           OIL CONDITION             Sis @ 100°C       cSt       13.3       14.0           Sis @ 100°C       cSt       94       77           Oxidation (PA)       %       94       77           Soot %       %       0.7       0.8           Soot %       %       0.7       83		INFORMATION			
Machine Hours       5013       4402           Dil Hours       0       0           Dil Changed       Changed       Changed           Status       NORMAL       NORMAL           OIL CONDITION       Instance       Instance       Instance       Instance       Instance         Status       Status       Status       Status       Instance       Instance       Instance       Instance       Instance         OIL CONDITION       Instance       Instance       Instance       Instance       Instance       Instance       Instance       Instance         Status       Status       Status       Instance       Instance       Instance       Instance       Instance         Status       Status       Instance       Instance       Instance       Instance       Instance       Instance         Status       Status       Status       Instance       Instance       Instance       Instance       Instance         Status       Status       Status       Instance       Instance       Instance       Instance         Status       Status       Status       Instance       <	Sample Number		VCP404285	VCP289717	 
Normal         O         O             bil Hours         O         O         O             bil Changed         Changed         Changed             ample Status         NORMAL         NORMAL             OIL CONDITION         OIL CONDITION              Sisc @ 100°C         cSt         13.3         14.0             Sisc @ 100°C         cSt         13.3         14.0             Sisc @ 100°C         cSt         94         77             Oxidation (PA)         %         94         77             Oot %         %         0.7         0.8             Soot %         %         0.7         83	Sample Date		26 Jun 2023	09 Dec 2020	 
Changed         Changed         Changed             ample Status         NORMAL         NORMAL             OIL CONDITION         OIL CONDITION              risc @ 100°C         cSt         13.3         14.0             ase Number (BN)         mg KOH/g         7.4              oxidation (PA)         %         94         77             CONTAMINATION               oot %         %         0.7         0.8             litration (PA)         %         106         83	Machine Hours		5013	4402	 
NORMAL         NORMAL             OIL CONDITION              risc @ 100°C         cSt         13.3         14.0             ase Number (BN)         mg KOH/g         7.4              Didation (PA)         %         94         77             CONTAMINATION               oot %         %         0.7         0.8             Ilitration (PA)         %         106         83	Oil Hours		0	0	 
OIL CONDITION           risc @ 100°C         cSt         13.3         14.0             ase Number (BN)         mg KOH/g         7.4              oxidation (PA)         %         94         77             CONTAMINATION               oot %         %         0.7         0.8             litration (PA)         %         106         83	Oil Changed		Changed	Changed	 
OIL CONDITION         fisc @ 100°C       cSt       13.3       14.0           ase Number (BN)       mg KOH/g       7.4            oxidation (PA)       %       94       77           CONTAMINATION             oot %       %       0.7       0.8           litration (PA)       %       106       83	Sample Status		NORMAL	NORMAL	 
OIL CONDITION         fisc @ 100°C       cSt       13.3       14.0           ase Number (BN)       mg KOH/g       7.4            oxidation (PA)       %       94       77           CONTAMINATION             oot %       %       0.7       0.8           litration (PA)       %       106       83					
ase Number (BN)         mg KOH/g         7.4              Dxidation (PA)         %         94         77             CONTAMINATION         001%         0.8             oot %         %         0.7         0.8             litration (PA)         %         106         83	OIL CON	DITION			
Oxidation (PA)         %         94         77             CONTAMINATION         001         0.8             oot %         %         0.7         0.8             litration (PA)         %         106         83	Visc @ 100°C	cSt	13.3	14.0	 
CONTAMINATION         0.8            oot %         %         0.7         0.8             litration (PA)         %         106         83	Base Number (BN	I) mg KOH/g	7.4		 
CONTAMINATION           oot %         %         0.7         0.8             litration (PA)         %         106         83	Oxidation (PA)	%	94	77	 
CONTAMINATION           oot %         %         0.7         0.8             litration (PA)         %         106         83					
litration (PA) % 106 83		INATION			
	Soot %	%	0.7	0.8	 
ulfation (PA) % 68 62	Nitration (PA)	%	106	83	 
	Sulfation (PA)	%	68	62	 

NEG

<1.0

4

12

## JOHN KENO & CO

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

## 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.

Potassium

%

%

ppm

ppm

ppm

NEG

<1.0

8

**4** 

6

Glycol

Fuel

Silicon

Sodium

WEAR I	METALS			
Iron	ppm	73	45	 
Copper	ppm	5	3	 
Lead	ppm	□<1	3	 
Tin	ppm		0	 
Aluminum	ppm	7	11	 
Chromium	ppm	2	1	 
Molybdenum	ppm	66	62	 
Nickel	ppm		0	 
Titanium	ppm	0	<b></b> < 1	 
Silver	ppm	0	0	 
Manganese	ppm	□<1	< 1	 
Vanadium	ppm	0	0	 

Vanadiu

ADDITIVES						
Calcium	ppm	1232	1750			
Magnesium	ppm	972	543			
Zinc	ppm	1413	1221			
Phosphorus	ppm	<b>1054</b>	1052			
Barium	ppm	0	0			
Boron	ppm	<b>11</b>	37			

 Depot:
 JOHELK

 Unique No:
 10548417

 Signed:
 Wes Davis

 Report Date:
 10 Jul 2023

Report Id: JOHELK [WUSCAR] 05892607 (Generated: 07/10/2023 13:16:30) Rev: 1

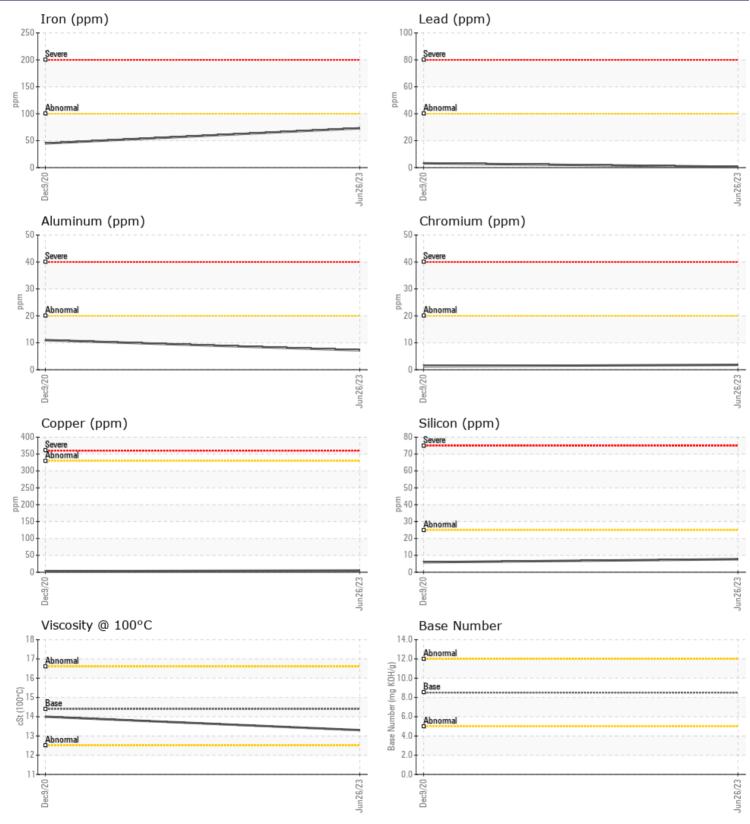
Contact/Location: LUKAS DECKER - JOHELK

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: LUKAS DECKER - JOHELK