

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL SEVERE ABNORMAL

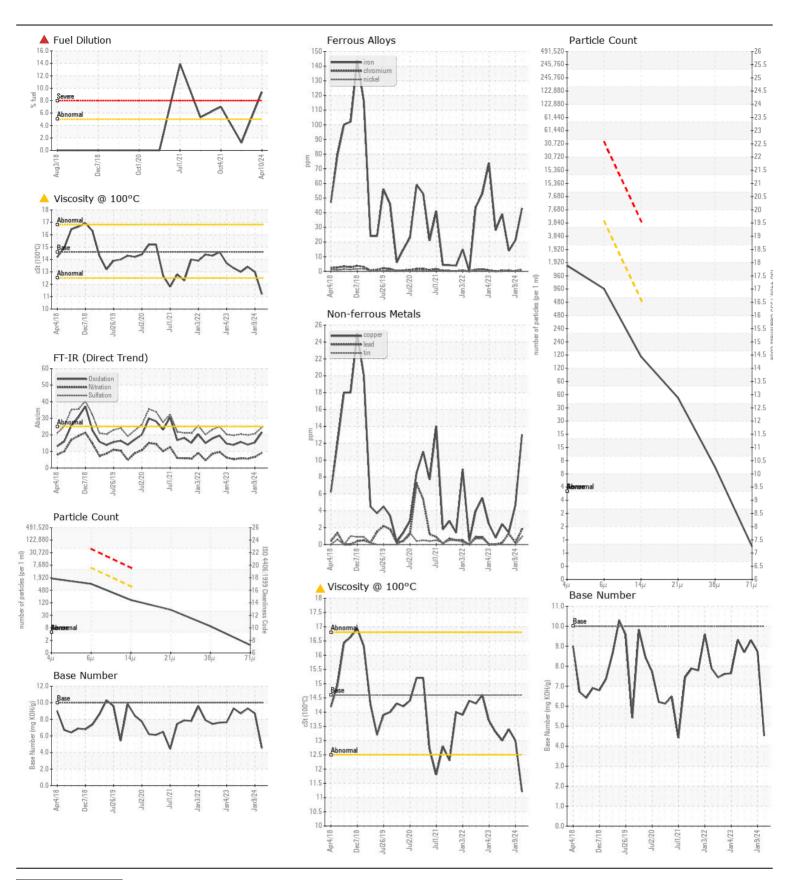


PCS - PORTABLE CRUSHING SERVICES Machine Id KOMATSU PC290LC TH01 - PCS

Diesel Engine

CHEVRON DELO 400 SDE SAE 15W40 (24 QTS)

CHEVRON DELO 400 SDE SAE 15W40 (24 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number		Client Info		KL0013775		KL0013077
We advise that you check the fuel injection system. We recommend an	Sample Date		Client Info		10 Apr 2024	09 Jan 2024	03 Oct 2023
early resample to monitor this condition.	Machine Age	hrs	Client Info		12916	12462	12320
	Oil Age	hrs	Client Info		504	50	645
	Filter Age	hrs	Client Info		504	50 Changed	645
	Oil Changed Filter Changed		Client Info		Not Changd Not Changd	Changed Changed	Not Changd
	Sample Status		Client inio		SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		43	21	14
All component wear rates are normal	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m ASTM D5185m	>4	1	0	1 <1
	Titanium Silver	ppm	ASTM D5185m	. 2	<1 0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	0
	Lead	ppm	ASTM D5185m		2	<1	1
	Copper	ppm	ASTM D5185m		13	5	1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ASTM D5185m	. 05		c	6
CONTAMINATION	Silicon Potassium	ppm	ASTM D5165III		8 2	6 0	6
There is a high amount of fuel present in the oil. The amount and size	Fuel	ppm %	ASTM D3163111	>5	▲ 9.4	<1.0	<1.0
of particulates present in the system are acceptable.	Water	/0	WC Method		NEG	NEG	NEG
or particulates process in the cyclem are acceptance.	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.2	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624		9.2	6.7	5.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	20.7	19.9
	Particles >4µm		ASTM D7647		1557	3012	3402
	Particles >6µm		ASTM D7647	>5000	848	1600	1853
	Particles >14µm		ASTM D7647		144	300	315
	Particles >21µm		ASTM D7647		49	93	106
	Particles >38µm		ASTM D7647		8 1	16 1	16
	Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)		17/14	18/15	18/15
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor		*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	0	0
I LOID CONDITION	Boron	ppm	ASTM D5185m		214	321	360
Fuel is present in the oil and is lowering the viscosity. The BN result	Barium	ppm	ASTM D5185m		1	0	0
indicates that there is suitable alkalinity remaining in the oil.	Molybdenum	ppm	ASTM D5185m		86	85	92
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		381	385	384
	Calcium	ppm	ASTM D5185m	=0.0	1425	1401	1398
	Phosphorus	ppm	ASTM D5185m		1000	956	998
	Zinc Sulfur	ppm	ASTM D5185m	800	1164	1170	1232
	Oxidation	ppm Abs/.1mm	*ASTM D5185m		4034	3819 15.4	4242 14.1
	Base Number (BN)				21.6 4.52	8.73	9.31
	Visc @ 100°C	cSt	ASTM D2030		4.52 11.2	13.0	13.4
	1100 @ 100 O	501	, 10 I W DTT0	17.0	<u></u>	10.0	10.7





Certificate L2367

Laboratory Sample No. Lab Number Unique Number: 10980683

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0013775 : 06150605

Received : 16 Apr 2024 **Tested** Diagnosed

: 19 Apr 2024 : 19 Apr 2024 - Doug Bogart Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, PrtCount)

PIKES PEAK PERFORMANCE PRODUCTS 7888 BULLET RD PEYTON, CO

US 80831 Contact: SCOTT RIGGS

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. sriggs.pikespeakperformance@gmail.com T: (303)434-0126

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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