

OIL ANALYSIS REPORT

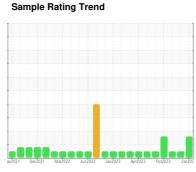
OIL ANAL 1313 REPOR

GUAY SON/Yavaros [CONHER] Machine Id PERKINS Pacifico Ind PISA1 Aux1

Component

Auxiliary Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (40 LTR)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

) (40 LIN)		ep2021 Dec	2021 Mar2022 Jun203	22 Jan2023 Apr2023 Oct2	023 Jan 202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013463	KL0013444	KL0013384
Sample Date		Client Info		23 Jan 2024	21 Dec 2023	17 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	42	6	12
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	3	2
Lead	ppm	ASTM D5185m	>40	6	0	2
Copper	ppm	ASTM D5185m	>330	30	7	6
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		335	279	322
Barium	ppm	ASTM D5185m		2	0	1
Molybdenum	ppm	ASTM D5185m		217	120	128
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		1142	675	629
Calcium	ppm	ASTM D5185m		2264	1473	1517
Phosphorus	ppm	ASTM D5185m	1360	1234	720	653
Zinc	ppm	ASTM D5185m	1480	1349	836	795
Sulfur	ppm	ASTM D5185m		4612	2422	2596
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u>▲</u> 37	6	20
Sodium	ppm	ASTM D5185m		7	<1	0
Potassium	ppm	ASTM D5185m	>20	4	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		2.1	0.1	1.2
Nitration	Abs/cm	*ASTM D7624	>20	9.2	6.7	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	22.9	25.1



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