

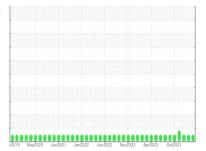
OIL ANALYSIS REPORT

GAS

K-2020/50/90 (S/N LP COMPRESSOR)

Component Compressor

CASTROL PERFECTO XPG 32 (1500 GAL)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

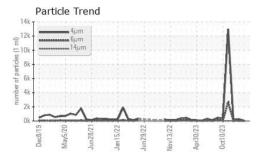
Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

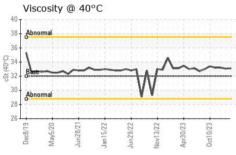
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003135	HLC0002962	HLC0003181
Sample Date		Client Info		01 Apr 2024	07 Feb 2024	07 Jan 2024
Machine Age	hrs	Client Info		0	0	68992
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	0	0
Lead	ppm	ASTM D5185m	>65	2	0	0
Copper	ppm	ASTM D5185m	>65	<1	0	0
Tin	ppm	ASTM D5185m	>10	1	1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	10	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	2	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	0	4	22	0
Phosphorus	ppm	ASTM D5185m	25	14	14	6
Zinc	ppm	ASTM D5185m	0	2	13	0
Sulfur	ppm	ASTM D5185m	1500	645	554	643
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		70	251	191
Particles >6µm		ASTM D7647	>2500	6	45	43
Particles >14µm		ASTM D7647	>320	0	5	6
Particles >21µm		ASTM D7647	>80	0	3	1
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	13/10/7	15/13/10	15/13/10
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	0.05	0.234	0.05

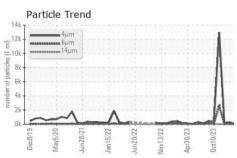


OIL ANALYSIS REPORT



0.25		Num	ber						
(B/HO:					٨		A		1
y 0.15				1	$/ \setminus$	\ ,	1	٨	
Acid Number (mg KOH/g) 01:0 00:0 00:0	Base	A	M	JV		W	6	17	
0.00	L	20	21-	22	- 22	22	23	Z3 -	
	Dec8/19	May5/	Jun28/	Jan15/	Jun29/	Nov13/	Apr30/	0ct10/	



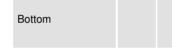


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIFS	method	limit/base	current	history1	history2

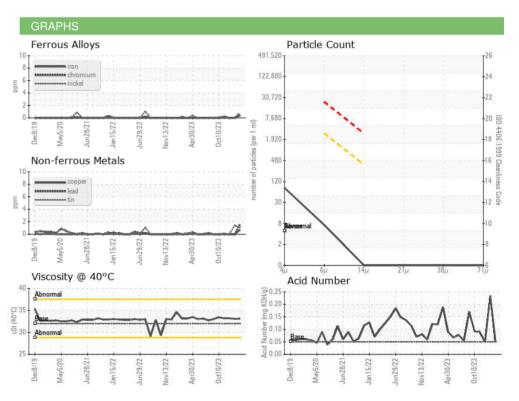
Visc @ 40°C	cSt	ASTM D445	32.0	33.1	33.07	33.2

AMPLE IMAGES	method	

Color











Laboratory

Sample No. Lab Number : 06146561 Unique Number : 10976639

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

: HLC0003135

Received **Tested** Diagnosed

: 11 Apr 2024 : 15 Apr 2024

: 15 Apr 2024 - Angela Borella

PRUDHOE BAY, AK US 99734 Contact: INDIGO MERRITT

> imerritt@hilcorp.com T: (907)670-3514

F: (907)659-5377

HILCORP NORTHSTAR FACILITY

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 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.

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